



## Clark University Bulletin

Suh-Freshman Number



Published in the interest of Old Friends and New Acquaintances

Worcester, Massachusetts



LARK UNIVERSITY offers at moderate expense a thorough collegiate training leading to the degree of Bachelor of Arts. The scholastic requirements for the degree are one hundred and twenty semester hours credit in addition to Physical Training, with a rank above the bottom quarter of the

class in three-fifths of the work.

In a limited number of departments, work is offered leading to the degrees of Master of Arts and Doctor of Philosophy.

The presence of a proportionately large graduate student body offers inducement to undergraduates for high standards of work.

Small classes and a relatively large faculty allow close acquaintance with heads of departments.

Undergraduates are encouraged to carry as full a schedule of courses as they are able and still maintain an average in the upper half of their classes. This permits those with sufficient ability to finish the course in three years and one-half or even in three years.

An endowment above the average, given for the specific purpose of keeping the expense of an education low, allows the tuition to be held at \$200.00, including a tax of \$10.00 in support of student activities.

Twenty Jonas G. Clark Memorial Scholarships of \$100.00 each are available for entering freshmen who have graduated in the upper quarter of their preparatory school class. Ten similar scholarships are available for each of the three upper classes in college.

### Foreword

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You, as a High School Senior, may wonder why Clark University takes the trouble to send this bulletin to you.

One reason is that while the graduate division of Clark University has an international reputation among scholars, the undergraduate division ("college") is younger and less widely known. We want you to know of it and to realize how attractive its educational opportunities are for young men who wish a first class college training. Clark men today are continuing their work with distinction in the best graduate schools of the country—both business and professional—or carrying on successfully in the various vocations.

Another reason is that it is our desire to select carefully about one hundred and twenty-five Freshmen each year from a much larger number of applicants. If you are well qualified and are looking forward to a first class education at a small New England college, you will do well to investigate Clark. The opportunities for personal association with the members of the faculty and for the establishment of close friendships with a large proportion of your classmates are especially good and will remain so because under no circumstances will Clark accept a large number of students. You will need fifteen certified units for admission without condition, but two conditions will be allowed if you are in every other way qualified. Deficiencies in certified units may be redeemed by passing the College Board examinations. You will also need good personality and character recommendations for we are to be increasingly careful in this respect.

Finally, although jealously guarding our reputation among New England colleges for the excellence of our scholastic work, we wish our students to have the other delightful experiences which accompany life at college. The opportunities for these as offered by athletic, musical, and social activities are described in the following pages.

We hope that you will read this bulletin carefully. If thereby you gain a worthwhile educational opportunity and we gain a worthwhile alumnus, we shall be satisfied.

Mallace W. Turvod

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Assistant Professor of German

OSCAR WHITE RICHARDS, A.M. (Oregon)
Assistant Professor of Biology

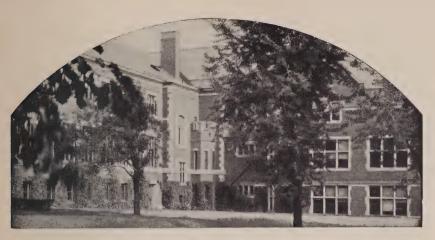
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Director of Glee Club



INNER COURT, UNIVERSITY LIBRARY

### Location

LARK UNIVERSITY is situated in Worcester, Massachusetts, a city of some 200,000 inhabitants, 45 miles from Boston. Worcester has long been one of the educational centers of New England, being the seat of Holy Cross College, Worcester Polytechnic Institute, Assumption College, Wor-

cester State Normal School, and Worcester Academy. The Worcester Art Gallery, with its large endowment, is one of the notable galleries of the country. The churches of the city number over 100, and give full opportunity for worship according to individual preference. The Y. M. C. A. building, within easy walking distance of the University, is modern and well equipped. The situation of the city is such that opportunities in drama and in music are offered superior to those available in most cities of similar size.

### Historical

Clark University owes its existence to the generosity of Jonas Gilman Clark, who gave funds for its establishment during his life and bequeathed it his fortune at his death. Students were first received in 1889. For the first thirteen years the University was exclusively a graduate school and, under the leadership of President G. Stanley Hall, an able

staff of instructors sent out from the University a steady stream of scholarly men who have given the institution a prominence disproportionate to its size in the fields of Biology, Chemistry, Education, Mathematics, Physics, and Psychology. Under the provisions of Mr. Clark's will Clark College was established in 1902. At first the University and the College occupied the same grounds and buildings but had separate presidents and faculties. In 1921–1922 plans for their unification were perfected, and they became the Graduate and Undergraduate Divisions of Clark University. The latter however, is still ordinarily referred to as Clark College.

### The Campus

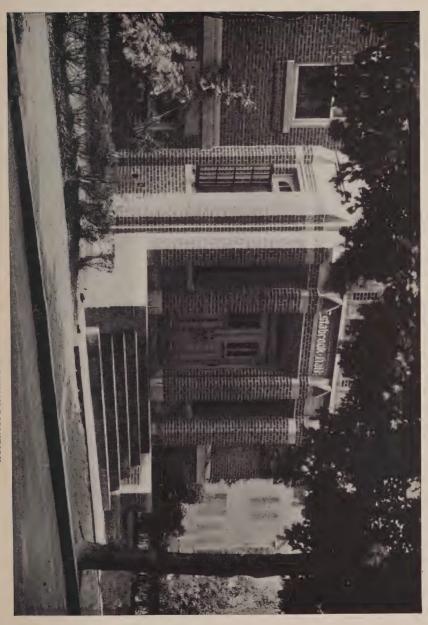
The campus consists of a plot of about seven acres, a mile southwest of the business center of Worcester. The offices of administration are in Jonas G. Clark Hall.

Estabrook Hall, the freshmen dormitory, is only a few minutes walk from the campus. It accommodates fifty-one students. It is thoroughly up-to-date, heated by steam, well equipped with shower baths, and has light, airy corridors. The building is cared for by a man and wife of excellent personality who reside in it. The ground floor is occupied by the Dining Hall.

The University has recently developed as an athletic field a plot of about seven acres. There is, in addition, the old athletic field, immediately adjoining the campus, an acre or more in extent, with tennis courts, outdoor basketball court, a six lap running track and space for field events.

### Endowment, Faculty, Laboratories, and Library

Clark University is a small institution with a total enrollment of approximately 350 full time students, but in contrast to many small institutions has a relatively large endowment—nearly five million dollars—with an additional million in its plant. This money is invested in the three things which make any institution outstanding—its faculty, its laboratories, and its library. These are the features about which an estimate of Clark should center.





G. STANLEY HALL MEMORIAL ROOM

G. Stanley Hall was an internationally famous psychologist and president of the University from its founding in 1888 to his resignation in 1920. His portrait appears in the cut.

The Library deserves special mention. Clark is almost uniquely fortunate in this prerequisite for real university and college life for approximately a million dollars is available for the exclusive use of the Library. A permanent staff of seven besides student assistants is employed and the building is open for study from 8 a. m. to 10 p. m. each week day. Over one hundred thousand bound volumes and pamphlets are on the shelves and over five hundred journals are regularly received. About four thousand books are added each year. Each member of the University has direct access to every book and journal.

Money has been generously spent in the equipment of research laboratories and the undergraduate student receives much advantage from their presence. The Chemical Laboratory unquestionably has an equipment superior to that of many colleges twice the size of Clark and the Psychological Laboratory is one of the finest in the country.

The Faculty, forty in number, is in an unusually large ratio to the student enrollment. The high degree of its professional training may be judged by an examination of its personnel, page 2. With its limited number Clark offers to every student



an unusual opportunity for personal association with the Head of each Department in which he is working. Moreover, with a faculty of this size, Clark is able to do much of its work in small classes, an ideal universally sought for but rarely realized. These features may perhaps be justly regarded as the most important educational advantages of a course at Clark.

### Courses of Study

In the Undergraduate School the range of courses is similar to that offered in any first class college. Instruction is given in the following thirteen departments:

B. Division of Social Science and Psychology
VI History and International Relations, VII Economics
and Sociology, VIII Psychology and Education
IX Geography

C. Division of Languages and Literature X English, XI German, XII Romance Languages, XIII Ancient Languages

The freshman program is largely fixed as it must include English, a Foreign Language, a course in the Division of Social Science and Psychology, and either Biology, Chemistry, Physics, or Mathematics.

At the end of the freshman year a student is expected to indicate in which department he intends to major and to select a minor in a closely related field. Too early specialization is prevented by required work in English, Foreign Languages, Laboratory Science, and Social Science and Psychology. These requirements, however, may be largely completed by the end of the sophomore year, leaving much of the last two years free for study in fields of special interest.

Clark desires the superior students to do independent work as early as possible and to this end those who average in the upper quarter of their classes are allowed during the junior and senior years to do independent work, not to exceed three hours each semester, under special supervision and without the requirements of regular classroom work. In this manner



the transition to the graduate attitude of mind is easily made. This, together with the fact that an undergraduate whose scholastic record is good may continue his training at small cost, leads many Clark men into graduate study.

In addition to the usual courses leading to the degree of Bachelor of Arts, Clark offers graduate work leading to the degree of Master of Arts in Biology, Chemistry, and Physics, and to the degree of Doctor of Philosophy in Economics and Sociology, Geography, History and International Relations, and Psychology and Education. No attempt is made to rival the large universities in the range of fields covered, but rather to do excellent work in a few departments. The Graduate School of Geography is performing a service unique in this part of the United States. The Summer School offers courses leading to the degree of Bachelor of Education and also general undergraduate and graduate work.

### Admission

The normal requirements for admission to the Undergraduate Division of Clark University are first, graduation from a high school of good standing; second, presentation of fifteen units of certified work; third, evidence of good moral character. Students who present thirteen or fourteen certified units may be admitted on condition. These may be removed on evidence of ability to do satisfactory college work. Those who cannot present thirteen certified units for admission may obtain the required additional units by passing the examinations of the College Entrance Examination Board. Information concerning the Board may be obtained by addressing 431 West 117 St., New York City. Applications and fees must be forwarded to the Board by about the middle of May. By special consent the September examinations furnished to the college by the Board may be taken in Worcester. The University stands ready to consider on their merits the cases of more mature individuals whose education has been irregular or delayed through reasons beyond their control. Women are admitted to the graduate division and to advanced undergraduate courses in some departments.

Clark is a member of the New England College Entrance Certificate Board and all New England principals certifying to Clark assume responsibility to that Board.



CLARK SOCCER TEAM, 1928
Two losses, one tie, five wins

### Graduation

To obtain the degree of Bachelor of Arts a student is required to complete satisfactorily a total of 120 semester hours, exclusive of Physical Training; that is, the equivalent of five three-hour courses each semester for four years. No student's work is regarded as satisfactory and entitling him to graduation unless he ranks above the lowest quarter of those passing in at least three-fifths of his courses.

Students of ability are encouraged to finish the course in the shortest time consistent with good scholastic accomplishment. In furtherance of this a freshman is allowed to elect six courses on entrance and to continue with six as long as he averages in the upper half of his courses. He may indeed petition to carry additional work. No one, however, is permitted to complete his college course in less than three years. A system of credit bonuses encourages high grade work.

### Tuition, Room, and Board

Owing to the express desire of the founder that his generous endowment should be used to make a college education available to deserving young men, the expense of tuition has been kept at the relatively low figure of \$100.00 a semester. This includes the annual student tax of \$10.00 for the support of various student activities, chiefly athletics and debating.

Other expenses are a \$5.00 matriculation fee, an additional tax of \$4.50 which the students have imposed upon themselves, and laboratory fees of \$5.00 a semester for science courses. The cost of books will approximate \$20.00 a year.

Undergraduates from out-of-town must board at Estabrook Hall and freshman from out-of-town must room there. Board is \$7.50\* per week and room rent \$115.00 to \$150.00 per year for each occupant. The higher price is for a share of a two-room suite; the lower for a share of a single room. The rooms are furnished with a desk, chair, chiffonier, cot, mattress and pillow for each occupant. A deposit of \$25.00 is required as security against possible damage and to cover the cost of lighting. Students wishing to room together should so state, each making his own deposit. Rooms are reserved in order of application when accompanied by the deposit. The sketch on the opposite page shows the arrangement of the rooms.

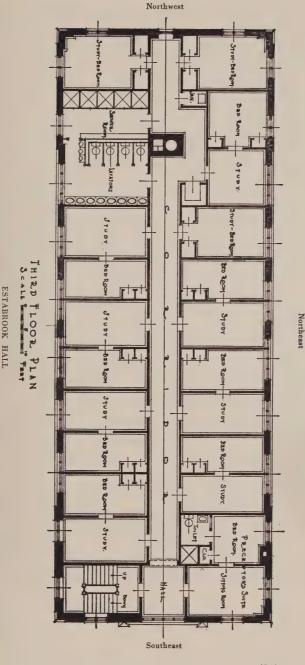
### Scholarships, Student Aid, and Self-help

No attempt will be made here to describe the fellowships and scholarships open to graduate students. Information concerning them may be obtained from the Registrar.

For undegraduates fifty Jonas G. Clark Memorial Scholarships are available for students of high academic standing, each yielding \$100.00. Twenty of these are awarded, on application, to entering freshmen who averaged in the upper quarter of their class for their preparatory school course. Of the freshman scholarships, eight are reserved for candidates from the Worcester High Schools and will be awarded preferably two to each of the four schools. These scholarships will generally be awarded early in August and applications must be received prior to that time to ensure consideration. For each of the three upper classes ten scholarships are reserved which may be granted to anyone averaging in the upper quarter of his class for the preceding year.

Sufficient loan funds are available to allow the continuance

<sup>\*</sup>May be raised to \$8.00 at any time.



The rooms on the fourth floor are arranged like those on the third except that the rooms over the preceptor's suite have no individual bath, Woodland Street extends along the southeast side of the building and Charlotte Street along the northeast side.



Courtesy Worcester Telegram-Gazette

### BIRD'S-EYE VIEW OF CLARK UNIVERSITY

- 1. Estabrook Hall
- 2. Fanning Hall
- 3. Dean's Residence
- 4. President's Residence
- 5. Faculty House
- 6. Faculty Residences
- 7. Faculty Tennis Court
- 8. Jonas G. Clark Hall
- 9. Chemistry-Physics Laboratory
- 10. Old Athletic Field
- 11. Library Building
  12. Geography Wing of Library Building

The new athletic field is about five minutes' walk from the old athletic field.

(14)

in college of deserving students. Spare time employment can usually be found in the city. In view, however, of the time required for the regular work of the College, only the exceptional student should expect to earn more than a limited part of his expenses, and as a general rule at least \$500.00 should be at the disposal of any man beginning a college course provided he cannot live at home.

### College Life Outside the Classroom

Although Clark stands uncompromisingly for the idea that the intellectual life of the institution as developed by reading, study, and in the classroom is the prime object of college and must at all cost be put first, it is believed that by proper planning of his time a student may find abundant opportunity for a reasonably amount of extra-curriculum activity as well; therefore such recreations are encouraged. There are monthly "Bohemians" in the gymnasium, and two formal "Proms." The College supports a Glee Club and Orchestra, trained by a professional Muscial Director, and a very successful Dramatic Association coached by a member of the English Department who takes especial interest in this type of activity. Debating has for a long time been notably successful at Clark, and was for a number of years the only type of intercollegiate activity in which the students engaged. The students publish the Clark Monthly, a magazine which gives opportunity for the publication of their literary productions and serves also as a forum for the expression of college opinion. A weekly newspaper, The Clark News, is now in its third year. There are four local and two national Greek letter fraternities, besides several special fraternities and organizations.

Clark has participated in intercollegiate athletics since 1919 and has been particularly successful in basketball. Rugby football is not played, but rapid advance has been made in soccer under competent coaching and the same is true of baseball.



CAMPUS SCENE



### For Further Information Address

The Registrar, Clark University Worcester, Massachusetts

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JANUARY, 1929

# The Summer School 1929

July 1—August 9

The Bulletin is published in January, February, March, April, May, June, October, November, and December

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# Schedule of Lecture and Recitation Hours

INSTRUCTOR	8	6	10	11	12	AFTERNOON
Arwood					Geography *21	Geography *21 Geography *300
BRANDENBURG			Economics *24	Economics 1		
Brooks						Geography *32
BURNHAM				Geography 190		
ВуЕ	History 151		History 16			History 11§
EKBLAW		Geography 110		Geography 160		Geography 11‡
Hudgins						Geography *204
Jones		Geography *24	Geography 14			Geography *34
Коерре	Geography 121		Geography 123			
LEE		History *211		History *22		
RIDGLEY	Geography *28 Geography 181	Geography 181				Geography 1804
GEOGRAPHY STAFF	FF					Geography *30†

NOTE: All the above courses are Summer School courses. The symbol "SS" before the numeral which distinguishes courses in Summer School from those given during the regular academic year, is omitted. \*Courses suitable for graduate credit. \$Friday afternoons and Saturdays. †Wednesdays at 3. ‡Saturdays. ‡Mondays, 3 to 5.

### Calendar

- July 1, Monday, 9 A. M. Registration begins.
  12 M. Opening Assembly.
  8-10 P. M. Reception to members of the Summer School by President and Mrs. Atwood.
- July 2, Tuesday, 8 A. M. Lectures and recitations begin.
- July 3, Wednesday, Transcontinental Field Trip begins.
- July 5, Friday, 8:30 P. M. Open lecture "Hawaii." Illustrated. President Wallace W. Atwood.
- July 11, Thursday, 8:30 P. M. Open lecture. "A Sabbatical Season in Europe." Dr. Samuel J. Brandenburg.
- July 18, Thursday, 8:30 P. M. Open lecture. "Rural Japan." Illustrated. President Atwood.
- July 25, Thursday, 8:30 P. M. Open lecture. "Recent Travels in Northern South America." Illustrated. Dr. Clarence F. Jones.
- Aug. 1, Thursday, 8:30 P. M. Open lecture. "Life in Polar Lands." Illustrated. Dr. W. Elmer Ekblaw.
- Aug. 8, Thursday, 8:30 P. M. Final Assembly. Conferring of Degrees.
- Aug. 9, Friday. Summer session closes.
- Aug. 10, Saturday, 8 A. M. Field trips following the Summer School begin.
- Aug. 23, Friday. Transcontinental field trip and field trips of two weeks' duration end.
- Aug. 30, Friday. Field trip of three weeks' duration ends.

All meetings will be held in the Jonas G. Clark Auditorium unless announcement to the contrary is given.

### COMMITTEE ON THE SUMMER SCHOOL

THE PRESIDENT OF THE UNIVERSITY
THE DIRECTOR OF THE SUMMER SCHOOL
MESSRS. BLAKESLEE, MELVILLE, MURCHISON

### Officers of Instruction and Administration

WALLACE WALTER ATWOOD, PH.D.

Geography

B.S., University of Chicago, 1897; Ph.D., 1903. President of Clark University and Director of the Graduate School of Geography.

Douglas Clay Ridgley, Ph.D.

Geography

A.B., Indiana University, 1893; M.S., University of Chicago, 1922; Ph.D., Clark University, 1925. Director of the Summer School and Professor of Geography in Education, Clark University.

CHARLES FRANKLIN BROOKS, Ph.D. Meteorology and Climatology.

A.B., Harvard University, 1911; A.M., 1912; Ph.D.,
1914. Professor of Meteorology and Climatology, Clark
University.

CLARENCE FIELDEN JONES, Ph.D.

Geography

B.S., University of Chicago, 1917; Ph.D., 1923. Professor of Economic Geography, Clark University.

WALTER ELMER EKBLAW, PH.D.

Geography

A.B., University of Illinois, 1910; A.M., 1912; Ph.D., Clark University, 1926. Geologist and Botanist, Crockerland Expedition, 1913-17. Professor of Geography and Managing Editor of *Economic Geography*, Clark University.

BERT HUDGINS, M.S.

Geography

B.E., Illinois State Normal University, 1915; M.S., University of Chicago, 1921. Professor of Geography and Head of the Department of Geography and Geology, College of the City of Detroit, Detroit, Michigan.

CLARENCE EUGENE KOEPPE, A.M. Meteorology and Climatology B.S., Colgate University, 1914; A.M., Clark University, 1927. Research Fellow, Clark University, 1927-29.

GUY H. BURNHAM, A.M.

Cartography

A.B., Clark University, 1916; A.M., 1922. Cartographer, Clark University.

DWIGHT ERWIN LEE, PH.D.

History

A.B., University of Rochester, 1921; A.M., 1926, Ph.D., 1928, Harvard University. Assistant Professor of Modern European History, Clark University.

Edgar C. Bye., A.M.

History

A.B., Haverford College, 1915; A.M., University of Pennsylvania, 1922. Professor of Social Studies, State Teachers' College, Shippensburg, Pennsylvania.

SAMUEL J. BRANDENBURG, PH.D.

Economics

A.B., Miami University, 1904; Ph.M., University of Chicago, 1909; Ph.D., University of Wisconsin, 1922. Professor of Economics and Sociology, Clark University.

EUGENE C. BELKNAP Source Material in Economic Geography Curator, Department of Chemistry.

CAREY EYSTER MELVILLE

Registrar

FLORENCE CHANDLER

Bursar

### The Summer School at Clark University

Clark University is now laying special emphasis on fields of study that lead to a better understanding of national and international problems. Geography, Economics, and History and International Relations are of fundamental importance to all students interested in the solution of the larger problems now before the world.

These studies are essential in the training of teachers who recognize as their goal the development of the highest type of citizenship. A knowledge of the geographic environment and its influence upon human affairs, a knowledge of the history of peoples and of how they make a living, and a knowledge of economic principles and their application to national and world problems should help to dissipate fears and suspicions and lead in the end to a better understanding among the nations of the world.

Clark University, with its extensive equipment in library and map resources, offers to its Summer School students the full use of all facilities available for the undergraduate and the graduate divisions of the University during the academic year. The concentration of the Summer School courses in three closely related departments of study,—Geography, History, and Economics,—results in a student body of moderate size with ample opportunity for ready use of the resources of the University in these departments.

The work of the Summer School is intensive. Courses meet five times a week. Three courses are considered a full program. Many students will find it advantageous to concentrate all their energies on the work of two courses or even on a single course.

### LOCATION AND BUILDINGS

Clark University occupies a tract of ground lying between Main and Woodland and Maywood and Downing Streets in the city of Worcester, situated about a mile and a quarter from the City Hall. Trolley cars from the Union Station either run directly past the University or make connections at the City Hall with cars running south on Main Street which pass the University. Taxicab service is available at thirty-five cents.

The office of the Summer School is located in the Jonas G. Clark Hall, which contains also the general offices of the University. Most of the exercises of the Summer School are held in this building. The office of the President of the University and the Geography Workroom are in the Geography Building where some classes are held.

In the Science Building are located the lecture rooms and laboratories of the departments of Physics and Chemistry.

All the classroom, library, and laboratory facilities of the Uni-

versity, so far as they pertain to the subjects of instruction offered, are at the disposal of students of the Summer School.

### THE LIBRARY

The Library of the University was provided with a generous endowment by the founder of the institution, and affords favorable opportunities for study and research. The Library now owns more than 120,000 bound volumes and pamphlets, and the Reading Room receives more than 500 journals. All the privileges of the Library are open to all members of the University, and each member has direct access to every book and journal.

In addition to the library facilities provided by the University, students may avail themselves of the privileges of other excellent libraries in the city. The Worcester Public Library contains some 245,000 volumes and makes accessible to the public about 600 newspapers and magazines. The educational books in the circulating Department of the Public Library have been grouped together in a corner of the Delivery Room, where they may be inspected by persons interested. Teachers' magazines, with other interesting pedagogical material, may be consulted in the Children's Department and in the General Magazine Reading Room. The Library of the American Antiquarian Society, housed in the national headquarters of the Society in Worcester, contains more than 148,000 volumes, and some 223,600 pamphlets. In addition to the Society's valuable manuscript of the Colonial period, it has an unequaled collection of books printed in America in the early period, and of American newspapers from 1660 to 1860.

### ADMISSION TO THE SUMMER SCHOOL

Graduates of colleges, technical schools, normal schools, or secondary schools, college students, and teachers in schools of any grade are admitted as a matter of course upon application. Other applicants are admitted upon approval of their qualification for the work which they desire to do.

Students in the Collegiate Division of Clark University who desire to have work done in the Summer School credited toward an A.B. degree are required to obtain the approval of the Collegiate Board.

### REGISTRATION

Persons who desire to enter the Summer School should detach and fill out the application form which is printed at the end of this Bulletin and forward it, with the registration fee of two dollars, to the Registrar of Clark University. The amount of the registration fee will be deducted from the tuition fee when the latter is paid. Checks should be made payable to Clark University.

The registration of all students in all courses should be completed on July 1. To this end students should, as far as possible, determine before the opening of the session, through personal conference or correspondence with the Director, Registrar, or the various instructors, the courses in which they expect to register.

Formal registration will take place between 9 A. M. and noon on Monday, July 1, in Jonas G. Clark Hall. All instructors will be on hand for consultation and for signing registration cards between these hours. The opening assembly of the Summer School will be held in the Auditorium, July 1, at 12 o'clock. Class work will begin promptly on Tuesday morning.

### CREDIT FOR WORK DONE

Some of the courses of instruction in the Summer School are of college grade, others are strictly graduate courses, and many are equally suitable for advanced undergraduates or graduate students.

Unless otherwise announced, each course is designed to cover the equivalent of two semester hours of credit, and is so credited when applied toward a degree in Clark University.

A certificate, with a statement of courses taken and grades received will be furnished at the close of the session to all students who desire it. In order to obtain a prompt report, students should leave a stamped and addressed envelope at the Registrar's office during the last week of the session.

Summer School courses may be applied toward the fulfillment of the requirements for the degrees of Bachelor of Arts, Bachelor of Education, or Master of Arts, subject to the general regulations of the University.

### THE BACHELOR OF ARTS DEGREE

Students who have been admitted to the Collegiate Department of the University may secure not more than six semester hours of credit towards the Bachelor of Arts degree in any one summer session on condition that permission be secured in advance from the Collegiate Board and that programs of study be approved by the Registrar.

### THE BACHELOR OF EDUCATION DEGREE

This degree is designed for teachers, both men and women, who have completed a two-year normal school course or its equivalent. Candidates for this degree may complete the requirements by work in the Summer School, in Extension courses, Home Study courses or in other courses open to them under the regulations of the University. At least 30 hours of credit must be earned *in residence* at Clark University. The completion of 120 hours of college credit

is required for this degree. The standard two-year course in a Massachusetts state normal school may usually be counted for 54 hours and certain specified requirements in particular subjects must be met. A special circular stating in full the requirements for the Bachelor of Education degree will be sent upon request. Correspondence concerning this degree is invited. Personal conferences with the Director or the Registrar during the Summer School will enable prospective candidates to arrange programs of study for succeeding summer sessions.

### THE MASTER OF ARTS DEGREE

The Summer School provides a sequence of graduate courses in successive summers whereby students who are formally admitted to the Graduate Division of the University may secure the degree of Master of Arts by devoting themselves exclusively to graduate study during a minimum period of one semester of the regular academic year, and three summer sessions, or their equivalent in field trips or other residence work, preparing an acceptable thesis, and passing a satisfactory oral examination. Courses intended for graduate credit are designated by an asterisk (\*) in the announcement of courses in this Bulletin. All programs of work to be applied toward the requirements for the degree of Master of Arts must be approved in advance by the major department concerned.

Early correspondence is requested by all who wish to begin work for graduate credit.

### TUITION AND FEES

Students taking two or more courses pay a fee of thirty-five dollars; those who desire to take but one course may do so upon payment of a fee of twenty dollars, which entitles them also to all special privileges of the Summer School. The same charge is made whether students register as auditors or for credit. For a statement of fees for Field Trips conducted by the Department of Geography, and the Department of History, see pages 22 to 27.

Students registering in the Summer School who have not previously been enrolled in Clark University are required to pay a matriculation fee of five dollars. This fee is paid only once and is not returnable.

Tuition may be paid at any time before noon of Saturday, July 6. Checks should be made payable to Clark University.

### BOARD AND ROOMS

The rooms in the college dormitory, Estabrook Hall, will be available for women students during the Summer School. These rooms are exceedingly attractive and are furnished with everything number of two-room suites for two persons rent for \$4 per week, per occupant. One person may secure a two-room suite for \$7 per week. A few large rooms, each suitable for two persons, are rented at \$3 per week, per occupant; for one person, \$5 per week. Bedding will be provided for an additional charge of \$1.50 per person, per week. Early correspondence is invited, as a number of rooms have already been reserved by former students. Good rooms may be had in private homes near the University. The Dining Room is located in Estabrook Hall and table board will be provided for members of the Summer School at \$8 per week.

The Faculty House, on Woodland Street across from the University, and one or more of the college fraternity houses will probably be available for the accommodation of a limited number of Summer School students.

### OUTSIDE ACTIVITIES

It is the intention of the Summer School not only to provide a daily program of serious work, but to afford the students and instructors opportunities for relaxation and enjoyment as well. Among these are courses of public lectures, entertainments, and excursions to places of scientific or historic interest. The working schedule has been planned so that those who desire to take advantage of the excursions or to visit Boston or other neighboring cities at week-ends may do so without detriment to their regular work.

The University Gymnasium and the Maywood Street tennis courts provide opportunity for both indoor and outdoor exercise. The summer climate of Worcester is pleasant; periods of excessive heat are rare; and Lake Quinsigamond, at the edge of the city and easily accessible by trolley, offers excellent facilities for boating and canoeing. Coes Pond, within easy walking distance of the University, is a favorite resort of summer bathers.

### **EXCURSIONS**

Saturday and afternoon excursions conducted by members of the Summer School staff have been instructive and enjoyable features of past sessions. Some of the points visited have been Mt. Wachusett, Mt. Monadnock; the Connecticut valley including Mt. Tom; Plymouth; Provincetown; Boston, Salem and Marblehead, the Wayside Inn; Lexington and Concord; Cohasset, famous for its carillon.

In previous summers, excursions were made to some of Worcester's industrial plants, including the Crompton and Knowles Loom Works, the American Steel and Wire Company's South Works, the Whittall Rug Factory, and the Norton Company.

For the coming session trips will be planned to suit the interests of the student body.

#### ILLUSTRATIVE MATERIALS

Mr. Eugene C. Belknap, Curator, Department of Chemistry, will provide a selection of literature, pictures, and specimens appropriate for use in geography teaching. Members of the Summer School should visit the exhibit early in the term in order to appreciate its value and to select material of specific value in their teaching. This material forms the basis of the laboratory exercises in the course on "Materials in Geography."

#### THE SUMMER SCHOOL ASSOCIATION

The Summer School Association was organized by the students at the first session of the Summer School in 1921. The Association promotes the social activities of the school during the summer session and holds an annual reunion during the year. Every student is urged to participate in the activities of the Association as they develop during the term.

#### NEW YORK STATE CLUB

In 1928 the members of the Summer School from New York State organized the New York Club of Clark University. The Club will hold its first meeting of the summer session of 1929 at 2 P. M., Monday, July 1, in Room 120, first floor of Jonas G. Clark Hall. All members of the Summer School from New York State are requested to be present. Correspondence from interested teachers and students is invited, in advance, by Miss Wilhelmina Gerard, president of the Club, 207 Grove Street, Elmira, New York, and Miss Bessie A. Merritt, secretary of the Club, Box 211, Dunkirk, New York.

#### SUMMER TOURIST RAILROAD RATES

Summer Tourist Railroad Rates from places west of Chicago are in effect from June to October. These rates offer a substantial reduction in transportation costs whether the tickets are for round trip rates over the same railroads or for return by a different route. Round trip tickets are usually made out for Marblehead, Massachusetts. Stop-over privileges are allowed at Worcester. The trip to Marblehead and return to Worcester may be made during the Summer Session. Inquiry should be made at local ticket offices well in advance of the date of starting.

#### THE SUMMER SCHOOL ROSTER

The names of students of the Summer School, with their home addresses, will be found in the General Catalogue of the following academic year. Students who desire a list should write to the University after February 1, of the following year.

# DEPARTMENTAL ANNOUNCEMENTS

The right is reserved to withdraw any course listed in the event of a registration too small to justify its being given.

Courses marked with an asterisk (\*) are primarily for advanced students.

#### **GEOGRAPHY**

The courses in geography announced here include undergraduate and graduate courses in the several phases of the subject. Certain fundamental courses are offered every summer. Others are given every other year or occasionally. At any summer session, however, courses not regularly planned for that summer may be given if there is a demand and if a reasonably large class is assured.

Students whose assignments involve the preparation of maps or who wish to practice map-making will appreciate the opportunity for special help by the cartographer, Mr. G. H. Burnham, in the Geography Workroom.

\*SS21. Regional Geography of North America. This course will include a description of the fundamental principles underlying the sub-division of North America and of the other continents into geographic regions. The physical geography of each of the major regions of North America will be presented in some detail, and the human response to the physical and economic conditions in each region will be so developed that the unity which characterizes a well organized treatment of geography will be illustrated over and over again.

The educational value and the great time saving quality in a rational development of regional geography is well illustrated in turning from the study of one continent to the study of another. This should become quite evident as the work proceeds.

The modern methods for studying maps, including comparative map studies, which represent the highest type of map study work, will be illustrated throughout our course. Map projects, to be carried out, under instruction, in the Workroom of the School of Geography, will be assigned to the members of the class so that the educational basis for the teaching of geography through greater activity on the part of the students may be emphasized and illustrated.

Daily, except Saturday, at 12.

PRESIDENT ATWOOD

SS14. Economic Geography. A study of a selected group of agricultural products and manufacturing industries. The agricultural items include wheat, rice, corn, coffee, tea, cotton, flax, swine, and sheep. Emphasis will be placed on the relation of rainfall, tem-

perature, soil, relief, and other physical factors and economic conditions to the distribution, production, and commercial movement of the agricultural commodities. Analysis will be made of the iron and steel, the automobile, and the textile industries from the standpoint of location, distribution, type of product, and rank of the several regions of the world in these activities. One or more special projects will be worked out by each student and handed to the instructor not later than Monday of the sixth week.

Daily, except Saturday, at 10.

Dr. Jones

\*SS24. South America. A survey of the continent of South America from the viewpoint of the relationship of economic activities to the natural environment. The course includes a discussion of the continent as a whole, the economic and other problems facing the South American republics, the major geographic regions of the several republics, and the commercial importance and trade developments of the different parts of the continent. The period on Friday will be devoted to illustrated lectures to which students not registered in the course are invited. Each student will work out one or more special projects to be handed in not later than Monday of the sixth week.

Daily, except Saturday, at 9.

Dr. Jones

SS110. Physiography. A brief resumé of the principles and fundamentals of physical and historical geology to acquaint the student with the geologic time-table, with the essential characters of each geologic period including evolution of plant and animal life, changes in climate and land form, and significant orogenic events, and with the methods of geologic investigation, all calculated to give a brief, but general, view of the background of present earth features; a study of geomorphology including the effects of past geologic history, and the present work of weather, wind, groundwater, streams, glaciers, seas and oceans, and life forms, in shaping the earth's surface now; a survey of the physiographic regions of North America as delimited by the foremost physiographers of the time; and an introduction to the interpretation and use of topographic maps by laboratory study of those which illustrate the distinctive surface features produced by the several physiographic factors, and the characteristic land forms of the several physiographic regions. The course, intended as an introduction to the subject for beginners and a review for those who feel they need it, should prove valuable to the teachers of geography, history, nature-study, and biology. Field course SS11 is required with this course and will yield one additional hour of credit.

Daily, except Saturday, at 9.

Dr. Ekblaw

SS160. Geographic Bases of Nature Study. An analysis of the geographic factors affecting the distribution and activities of plant and animal life, including a brief summary of the evolutionary history of the great plant and animal groups as related to the geologic history of the land masses of the earth; a study of the principal plant and animal regions of North America as determined by location and area, relief, drainage, soil, and climate; and an examination of the more significant literature available in this field, particularly the current publications which deal with the relationship of living organisms to environment. The course is intended to give the nature study teacher a sound scientific basis for field and schoolroom work. and the geography teacher an appreciation of the significance of geographic influences upon the character, habits, activities, and distribution of plants and animals singly and in association. Field Course SS11 is required with this course and will give one additional hour of credit.

Daily, except Saturday, at 11.

Dr. Ekblaw

SS11. Field Work in Geography. To meet a demand for training in field observations this course is so planned that the students will engage in a reconnaissance study of several typical regions of New England. Saturdays will be devoted to motor bus trips for the study of a representative section of the New England Upland and the Harvard Forest at Petersham; the Clinton-Harvard apple growing district and Mt. Monadnock; the Sudbury and Boston Basins and the Metropolitan environs of Boston to Cohasset; the industrial conurbation of the lower Blackstone Valley and Narragansett Bay Region and the resort development about Newport, R. I.; and, if time permits, the unique and distinctive communities of Cape Cod to Provincetown. Students planning to take this course must reserve all day Saturday of each week. This course will give a credit of one semester hour whether taken separately or in connection with SS110 and SS160. Students not registered in the course for credit may join the Saturday trips with profit. Transportation costs for the Saturday trips will not exceed an average of \$3.50 per person per trip.

All day Saturday.

Dr. Ekblaw

SS190. Mathematical Geography. A study of the earth's relations to the sun, moon, and other heavenly bodies and their influence on human life. The seasons, changing length of day and night, latitude, longitude, time, and the calendar, receive attention. The principal constellations will be observed and studied. Methods of presentation suitable to junior high school pupils. For teachers who wish to obtain content and method for presenting effectively those

phases of mathematical geography essential to a clear understanding of the human aspects of geography.

Daily, except Saturday, at 11.

Mr. Burnham

SS121. Elements of Climatology. A brief preliminary study will be made of weather conditions and processes. The general distribution of the several climatic elements over the world will be considered next, followed by a study of climate as affected by the physical factors of sun, mountains, land and water. At the conclusion of the course, the several types of climate will be discussed and illustrated by reference to various parts of the world. Some attention will be given throughout the course to the graphic representation of climatic data.

Daily, except Saturday, at 8.

Mr. Koeppe

SS123. Climates of North America. Consideration will be given first to a general survey of the physical conditions of the continent as far as these bear some relation to climate. A study will then be made of the various climatic elements—their distribution over the continent and their diurnal and seasonal variations. Finally, the chief climatic characteristics of the continent will be discussed on a regional basis, and some of the more important human responses will be emphasized.

Daily, except Saturday, at 10.

Mr. Koeppe

SS181. The Teaching of Geography. A discussion of the scope and purpose of geography. A comparative study of recent courses in geography. Methods of presentation suitable for elementary school and junior high school, including the problem method, and type study method. Special study of the First College Cruise around the World as a topic suitable to the various grades. Standard equipment for geography teaching. Local field lessons and their application to the various grades. Wide library reading. Consideration of the effective use of pictures, maps, and printed matter in textbook and reference books. A comparative study of available tests in geography.

The library contains an extensive collection of recent books for teachers and pupils, and the geography workroom offers exceptional opportunities for the making of maps for classroom use. Much of the library reading may be selected with direct reference to the needs of next school year. Opportunity will be given to examine the printed matter and museum specimens available for the course in "Materials in Geography."

Daily, except Saturday, at 9.

Dr. RIDGLEY

\*SS28. Geography in Education for Special Teachers. This course is designed to meet the needs of geography teachers who wish

to work specifically on their individual problems. Special topics will be developed and the results presented in class. Members of the class may develop full details for the presentation of a course in geography for a single year, or for courses for elementary school, junior high school, senior high school, normal school, or college. Lesson plans and topics of individual interest may be developed in detail. A wide variety of problems gives interesting side lights to many phases of the geography curriculum of value to all. The library and geography workroom are well equipped for the pursuit of this course. A few local field lessons will be given, and opportunity will be offered for the examination of printed matter and museum specimens available for the course in "Materials in Geography."

Daily, except Saturday, at 8.

Dr. RIDGLEY

SS180. Materials in Geography. A laboratory course in the preparation of materials for use as visual aids in instruction. The study of materials and literature. The collecting, classifying, and study of printed matter available on industry, travel, and geographic conditions. The selecting of raw materials and manufactured products available which have been collected from all parts of the world and mounting them, together with descriptive literature, into permanent exhibits for classroom use. Teachers prepare the exhibits for their own lecture and classroom work. Selection and use of lantern slides will be discussed. Manipulation of the lantern to obtain best results will be demonstrated, and practiced by members of the class. This course is particularly valuable to those teaching geography, English, general science, history, and home economics. Group conferences and individual instruction. Enrollment is made by obtaining approval of Dr. Ridgley and assignment of laboratory space in the Chemistry building by Mr. Belknap.

Laboratory work daily, at convenience. Group conference Mondays, 3 to 5 P. M., beginning July 1, in Chemistry Lecture Room.

Dr. Ridgley and Mr. Belknap

\*SS30. Seminar in Geography. Discussion for graduate students of geography; review of recent publications. Reports on thesis work and on research. Attendance required of graduate students preparing theses or registered for research. Open to all graduate students.

Wednesday, at 3.

THE GEOGRAPHY STAFF

\*SS300. Research in Physical and Regional Geography. This work will involve individual assignments to be made through special conferences.

PRESIDENT ATWOOD

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\*SS32. Research in Climatology. For properly qualified graduate students.

Dr. Brooks or Mr. Koeppe

\*SS34. Research in Geography of South America. For properly qualified graduate students.

Dr. Jones

Teachers and students of geography who wish a broader knowledge of Europe or of economic conditions of the United States will find interest in the following courses in History and Economics.

History \*SS211. History of Europe in the Nineteenth Century.

DR. LEE

History \*SS22. Recent International Relations of Europe.

DR. LEE

Economics \*SS4. Economic History of the United States.

For Field Trips, see pages 22 to 27. Dr. Brandenburg

#### HOME STUDY COURSES IN GEOGRAPHY

Clark University is now offering Home Study Courses for the benefit of those interested in the study and in the teaching of geography. These courses may be begun at any time and pursued as rapidly as opportunity for study affords. Many teachers pursue these home study courses during the school year while teaching. Other teachers who have not found convenient opportunity to attend summer school, have made rapid progress in home study work while at home during the summer vacation. Each course carries three semester hours of college credit toward the Bachelor's degree at Clark University. The tuition fee for each course is \$18. As soon as the tuition fee is received the complete set of lessons is forwarded. A bulletin describing all courses offered will be sent on request. Sample lessons of one or two courses will be sent on request. Address: Clark University, Home Study Department, Worcester, Massachusetts.

The following Home Study Courses are now ready:

#### Courses on the Teaching of Geography

- 1. The Teaching of Geography in the Elementary School.
- 2. The Teaching of Home Geography and World as a Whole.
- 2a. The Teaching of Third Grade Geography of the New York State Syllabus.
  - 3. The Teaching of North America.
  - 4. The Teaching of South America, Europe, and Asia.
- 5. The Teaching of Geographic Factors and the United States in its World Relations.

#### ACADEMIC COURSES IN GEOGRAPHY

- 6. Industrial and Commercial Geography.
- 7. Geography of North America.
- 8. Geography of South America.
- 9. Geography of Europe.
- 10. Geography of the Eastern Continents.
- 11. The Physical Geography of the Lands.
- 12. Weather.
- 13. Elements of Climatology.
- 14. Climates of the World.
- 15. Climatology of the United States.
- 16. Mathematical Geography.
- 17. Graphics and Cartography.
- 18. Special Studies in Geography.

Special attention of teachers and students who cannot attend Summer School is called to the opportunity offered by these home study courses to secure the same amount of college credit through home study courses as through the regular summer school period. Two home study courses give the same amount of college credit as the regular program of the summer school session. By enrolling early for a home study course, plans can be made for prompt and steady progress immediately at the beginning of the summer vacation. The completion of one or two home study courses during the summer can be readily accomplished.

#### HISTORY

\*SS211. History of Europe in the Nineteenth Century. This is a general course designed to follow both chronologically and in subject matter the course offered in Summer School, 1928, on the history of Europe from 1500 to 1815. It is planned to meet the needs of those who desire a general knowledge of Europe and also those who wish, for purposes of teaching or graduate study, to keep abreast of the most recent research and interpretations of the period. While emphasis will be placed upon the period from 1815 to 1914, some attempt will be made to sketch briefly the developments during and since the World War. Much attention will be devoted to the political and diplomatic developments of the period and some consideration will be given to the great social and intellectual movements arising from the influence of the French and Iudustrial Revolutions such as liberalism, nationalism, socialism, and imperialism.

The course will be conducted so far as possible by the discussion method using a text and assigned readings as material. Those desiring graduate credit will be expected to do additional work either in the form of a report on some special topic or directed reading.

Daily, except Saturday, at 9.

DR. LEE

\*SS22. Recent International Relations of Europe. The aim of the course will be to provide a background and a method for the study and appreciation of current events in the field of international affairs. After a rapid preliminary survey of the developments since the World War, emphasis will be fixed upon particular topics according to the desires and needs of those who elect the course. Among the topics to be treated in detail are the following: The League of Nations and its work, Reparations, the problem of security involving particularly the Rhine frontier of France and the states of the Little Entente, Balkan problems, the foreign relations of Fascist Italy and of Soviet Russia, the problem of disarmament, and the Paris Pact. The major part of the work in the course will consist of reports by the students who will be aided and directed individually in preparing and presenting papers.

Daily, except Saturday, at 11.

Dr. Lee

Introduction to American National Government. This course is a general survey of the nature, structure and functions of our federal system of government. It deals with the relations of the citizen with the government, the relations of the states and the United States and the powers and activities of the executive. legislative, and judicial departments. Among the problems discussed are the suffrage, non-voting, naturalization, immigration, civil rights, equal rights, prohibition legislation, educational legislation, centralization, states rights, the primary, the electoral college, powers and activities of the president, the bicameral system, the caucus and committee system in Congress, lobbying, powers and procedure of Congress and judicial review. The course should be especially useful to teachers of United States history and civics and to college students or others who desire to strengthen their understanding of our national government or to provide themselves with a background for understanding our current political problems.

Daily, except Saturday, at 8.

PROFESSOR BYE

SS16. The Teaching of History. This is a practical course in methods of teaching history for teachers or prospective teachers and supervisors. Emphasis will be laid upon junior and senior high school work, but teachers in any grade will find the course helpful. The topics discussed include the pupil, the teacher, the objectives, the content, the teaching and the testing. Practical problems, such as supervised study, the various types of recitation, socialized methods, projects, devices and aids, dramatization, the selection and use of books, drill and review, tests and current history teaching are studied through readings, reports, and discussions. The technique of history teaching is viewed as direction of learning

rather than the imparting of information. An extensive bibliography for immediate use and future reference is provided and the course is conducted in a classroom containing a very complete exhibit of materials used in the teaching of the social studies. The student has the opportunity of becoming familiar through actual contact with maps, textbooks, notebooks, syllabi, games, pictures, standardized tests, current events materials, publications for history teachers, etc. Daily, except Saturday, at 10.

PROFESSOR BYE

SS11. History of Massachusetts. This is a field work course, particularly designed for teachers of United States history. So much of the political, economic, social and intellectual history of our country, especially in the colonial and revolutionary periods, has transpired in Massachusetts that this course affords a unique opportunity to teachers from all parts of the country to familiarize themselves with these events in their original settings. The class meets two hours a week for study and discussion in the classroom or library and devotes all day Saturday of each week to the motorcoach excursions. Persons who do not wish to take the course for credit may join the Saturday trips upon payment of transportation charges which will not exceed an average of \$3.50 per person per trip. The Saturday field trips for the summer of 1929 are as follows:

Field Study No. 1. The Pilgrims and the South Shore. Quincy, Marshfield, Duxbury, Plymouth. The main theme will be the life of the Pilgrim settlements, but the Webster estate and the Adams homes will also be visited.

Field Study No. 2. The Puritans and the North Shore. Danvers, Salem, Marblehead. The beginnings of the Massachusetts Bay Colony, the witchcraft delusion, Hawthorne's Salem, and the maritime and revolutionary significance of the region will be studied.

Field Study No. 3. The Puritan Pioneers in the Connecticut Valley. Springfield, Northampton, Hadley, Amherst, Deerfield. The theme of this study will be the life of the first frontiersmen and their encounters with the Indians. Incidentally the colleges and public buildings of the cities visited and the scenery of the Connecticut and Millers River valleys and of the Harvard forest are notable.

Field Study No. 4. Colonial and Revolutionary Boston. A further study will be made of the settlement of the Bay Colony, but emphasis will be placed upon the opening events of the American Revolution. Certain aspects of modern Boston, such as the Library and the Art Museum, will be included.

Field Study No. 5. Beginnings of the Revolution and the New England Renaissance. Cambridge, Lexington, Concord, Sudbury. In this incomparably rich historical and literary environment, a study will be made of the first hostilities of the Revolution and of the homes and work of the great New England writers.

Friday afternoon and all day Saturday. Professor Bye

Teachers and students of United States History will find interest in the following courses in Geography and Economics.

Geography \*SS21. Regional Geography of North America.

PRESIDENT ATWOOD

Economics \*SS4. Economic History of the United States. For Field Trips, see pages 22 to 27. Dr. Brandenburg

#### **ECONOMICS**

SS1. Principles of Economics. The complete course which is to be offered in two parts, SS1 in 1929, SS2 in 1930, and alternately thereafter, is the equivalent of Economics 11 offered three hours a week through both semesters of the regular academic year. The purpose of the course is to assist the student in thinking clearly and accurately on economic subjects and in applying fundamental principles to actual conditions.

The course opens with a brief survey of the development of our present economic organization. It seeks to introduce the student to an understanding of the human activities and the social processes which are directed toward the end of gaining a living; to give him a comprehension of the principles underlying the production and valuation of economic goods; to call attention to the various aspects of our economic specialization, and interdependence. It gives some attention to the organization of business enterprises.

Daily, except Saturday, at 11. DR. BRANDENBURG

\*SS4. Economic History of the United States. This course will trace the economic progress of the United States from the Colonial times to the present. The emphasis, however, will be upon the period since the Civil War, in order that important contemporary problems can be studied. Such topics as the following will be treated: Economic life in the Colonies; early agriculture and manufacture; changes in the forms of transportation; domestic and foreign commerce; tariff policy, especially as it affects different sections of the country; currency and banking; immigration and population; labor organization; strikes and industrial unrest; the tendency toward co-operation and industrial democracy; and the question of women and children in industry. Class work will be conducted by means of discussion and reports on these and similar topics.

Daily, except Saturday, at 10.

Dr. Brandenburg

#### FRENCH AND GERMAN

While no provision is made for regular courses in French and German, students who wish to pursue either or both of these languages during the Summer Session may make arrangements to do so. A skilled instructor is available for lessons in French and German to individuals or groups at moderate cost. The lessons, if desired, will be given at the University. The work in these languages will be adapted to the individual needs of the students whether for elementary or advanced work, or for a reading knowledge of scientific works. Further information will be given on request.

### FIELD TRIPS IN GEOGRAPHY AND HISTORY

CLARK UNIVERSITY SUMMER FIELD TRIPS IN PERSPECTIVE

The field trips of 1929 are a continuation of a plan inaugurated by Clark University Summer School in 1924, for the study of geography and history out-of-doors. The initial trip of 1924 was the New England Field Trip; in 1925 the New England Field Trip was repeated and the Berkshire-Hudson-Valley Trip given at the same time; in 1926 the Champlain-Montreal Trip was introduced; in 1927 the Champlain-Montreal Trip and the New England Field Trip were repeated, and the first Clark University Overseas Trip to the British Isles and Western Europe was conducted by President Atwood; in 1928 the New York State Field Trip was given and the pioneer Transcontinental Field Trip by motor coach was conducted. The field trips for 1929 have been selected to continue some of the offerings of established interest, and to introduce other trips of special interest to teachers and students of geography and history.

### \*SS204. Transcontinental Field Trip

The first transcontinental field trip of Clark University Summer School was made in 1928. The members of the party were unanimous in recommending that this field trip be made a part of the Summer School program for 1929.

The trip of more than 8,000 miles will be made in a modern motor coach of a type designed for transcontinental travel. The route will pass through New York City, Philadelphia, Baltimore, Washington, Roanoke, Knoxville, Nashville, Memphis, Santa Fe, Albuquerque, Grand Canyon, Los Angeles, Fresno, Yosemite Park, San Francisco, Salt Lake City, Pocatello, Yellowstone Park, Chicago, Cleveland, Buffalo, Albany, to Worcester. Two special side trips will be included as a part of the field trip; one, the trip up Mount Tamalpais, near San Francisco, on the "Crookedest Railroad in the World;" the other, on the Pacific Ocean to Catalina Island, including a trip on the glass bottom boat, and a bus trip on the Island.

As a result of the pioneer transcontinental trip of 1928, direct

contacts have been made for special instruction in the three national parks to be given by the park naturalists. At the Grand Canyon Park, the park naturalist will interpret the geology and the geography of the Grand Canyon from the museum which is exceptionally well located for observation, and from other points of special interest along the south rim of the canyon. At Yosemite Park, the park naturalist will meet the field party at Merced and interpret the six life zones which characterize the region from the well cultivated California Valley to the summit of the Sierra Nevada Mountains. At Yellowstone Park, the park naturalist will give three days to personal guidance and instruction of the field party. The cooperation of the officers of Chambers of Commerce at the larger cities is assured.

Members of this field party will meet at Clark University at the opening of the summer session, Monday, July 1, at 9 A. M., in the lecture room on the second floor of the Geography Building. A preliminary study of the trip will be made on Monday and Tuesday under the direction of the instructor in charge. The party will leave Worcester on Wednesday, July 3, at 8 A. M. The trip by motor coach will continue for 52 days, returning to Worcester, Friday, August 23.

Instruction will be centered on points of outstanding interest to students and teachers of geography, history, and nature study. Field notes will be kept in systematic form. Maps and guide books for interpretation of the regions will be a part of the equipment. This field course is designed to cover the equivalent of six semester hours of credit, and is so credited when applied toward a degree in Clark University. The work for credit involves a preliminary study at the University and satisfactory field notes. The field notes may be submitted at the close of the trip, or as soon thereafter as convenient. A certificate, with a statement of the course and grade received, will be furnished soon after the instructor's report is filed with the Registrar. Graduate credit will be granted to qualified students. Two additional hours of credit will be granted for a satisfactory report on some phase of the field trip acceptable to the instructor. This report is due on or before January 15, 1930.

This trip will be in charge of Professor Bert Hudgins, head of the department of Geography and Geology, at the College of the City of Detroit. Mrs. Hudgins will accompany the party as chaperone. Professor Hudgins has participated in previous Clark University field trips following the summer sessions.

The cost of the trip is \$600, including tuition, transportation by motor coach from Worcester back to Worcester, hotel and meals while on the trip. A payment of \$50 is made at time of enrollment.

The balance is payable on or before May 5, 1929. Reservation, without payment, will be made on request, and definite enrollment will follow on payment of \$50. Make checks payable to Douglas C. Ridgley, Director Clark University Summer School. Early correspondence is requested. First reservations were made early in January.

FIELD TRIPS FOLLOWING THE SUMMER SCHOOL

Three field trips of two weeks' duration are offered following the Summer School. Each trip will be made by modern, comfortable motor coach with accommodations for twenty-five persons. Each trip begins at 8 A. M. Eastern Standard Time and continues for two weeks, returning to the starting point on Friday, August 23. These trips are open to any teacher or student who wishes to study geography and history out-of-doors, whether a member of the Summer School or not. The tuition fee for each trip is \$15; the cost of transportation is \$60; hotel expenses including meals are estimated at \$60. Persons coming from a distance to join any of these trips should arrive at the starting point not later than Friday, August 9. On request, the instructor of a trip will have rooms reserved for persons arriving on August 9.

All inquiries concerning enrollment, reading lists, and more detailed plans of the trip may be addressed to Clark University Summer School, Worcester, Massachusetts, or to the instructor in charge of the trip concerning which information is sought.

Payment of tuition and transportation will be made to Clark University, a payment of \$15 is made at time of enrollment. The balance, \$60, is payable on or before July 15. Reservation, without payment, will be made on request, and definite enrollment will follow on payment of \$15. Make checks payable to Douglas C. Ridgley, Director Clark University Summer School.

Early correspondence is invited, as final arrangements must be completed early in July.

The right is reserved to withdraw any of these trips if a sufficient number of advance registrations is not received.

Dutch and Quaker Colonies Field Course. A study will be made in the original settings of the settlement of the lower Connecticut, Hudson and Delaware valleys and of the American Revolution in the New York and Philadelphia regions. A glance at the itinerary will reveal the rich possibilities for following special historical, geographic, economic, social, literary or artistic interests, or for combining purposive, directed travel and a delightful vacation trip. Museums, universities, historic sites, great cities, seashore, rivers, mountains, state capitols, literary landmarks, military and naval bases, battlefields, churches, homes, farms, factories, theaters and

parks, will be visited. Bibliographies, daily guide sheets, maps and tourist information will be furnished. There will be lectures and guidance en route. Requirements as to field notes and reading will be arranged according to the credits desired. The route: Worcester, Springfield, Hartford, New London, New Haven, White Plains, Tarrytown, New York City (3 days), Norristown, Princeton, Trenton, Burlington, Camden, Philadelphia (3 days), Chester, Chadds Ford, Valley Forge, Bethlehem, Easton, Delaware Water Gap, Port Jervis, West Point, Newburgh, Kingston, Albany, Williamstown, Greenfield, Worcester.

This trip will be in charge of Edgar C. Bye, Professor of Social Studies, State Teachers' College, Shippensburg, Pennsylvania, and Instructor in Clark University Summer School. Inquiries concerning the trip may be addressed to Professor Bye or to the Clark University Summer School.

New York State Trip. The success of the New York State trip of 1928 conducted from Worcester as a starting point, warrants another trip in New York State for 1929. This trip is designed to be especially helpful to teachers and students of geography and history who live and teach in New York State. Persons from outside New York State will also find the trip of highest value. The new state syllabus in geography devotes ten weeks of fifth grade to a definite, concrete study of New York State as an introduction to the regional treatment of the United States and other countries of North America.

In order to concentrate the field studies of two weeks on this important unit of the state syllabus, the New York State Field Trip offered by Clark University Summer School for 1929 lies wholly within the state. The trip of nearly 2,000 miles will start at Oswego, Saturday, August 10, 1929, at 8 A. M., Eastern Standard Time, and end at Oswego, Friday, August 23. The field instruction will be in charge of Mrs. Isabelle K. Hart, Supervisor of Geography, State Normal School, Oswego. The itinerary includes Oswego, Rochester, Niagara Falls, Buffalo, Chautauqua Lake, Jamestown, Olean, Watkins Glen, Ithaca, Binghamton, Ashokan, West Point, Storm King Highway, Bear Mountain Bridge, New York City, Long Island, Albany, Mohawk Valley, Glens Falls, Ausable Chasm, Plattsburg, Lake Placid, Thousand Islands, Watertown, Utica, Syracuse, Oswego.

Correspondence concerning this trip may be addressed to Clark University Summer School or to Mrs. Isabelle K. Hart, State Normal School, Oswego, New York.

Field Trip for Connecticut Teachers. An evident interest in a field trip of two weeks exists among the teachers of the state of

Connecticut, and Clark University offers a trip especially planned for their convenience. The trip will be in charge of Professor George F. Howe, head of the geography department, State Normal School, New Britain, Connecticut. The trip will start from New Britain at 8 A. M., Eastern Standard Time, Saturday, August 10, and return to New Britain on Friday, August 23. Teachers and students from other states than Connecticut are invited to join the party.

The itinerary includes an extensive journey in New York State, southern Canada, and western New England. A variety of geographic features and an abundance of historic scenes make the trip of special value to teachers of geography and history. From New Britain, the route leads through Middletown, Binghamton, Canandaigua, Buffalo, Niagara Falls, Toronto, Kingston, Ottawa, Montreal, Burlington, Rutland, Worcester, Springfield, to New Britain.

Correspondence concerning this trip may be addressed to Clark University Summer School or to Professor George F. Howe, State Normal School, New Britain, Connecticut.

Maritime-Canada-Quebec Field Trip. This trip of three weeks duration is offered at the request of a number of members of the Champlain-Montreal trips conducted by Dr. Clarence F. Jones of Clark University, following the summer sessions of 1926 and 1927. The more extended route, with its rich geographic and historic scenes, requires three weeks for satisfactory results.

The route:—Worcester, Portland, Bath, Rockland, Calais, St. John, Digby, Kentville, Halifax, Truro, Moncton, Fredericton, Woodstock, Grand Falls, Edmunston, Riviere du Loup, Quebec, Thetford Mines, Sherbrooke, White Mountains, Concord, Manchester, Worcester. Special Fields of study: The Port of St. John, the Annapolis-Conwallis valley, land of Evangeline, port and fishing center of Halifax, agriculture between Truro and Moncton, middle and upper St. John valley, a cross-section of the older Appalachians, French Canada along the southern shore of the St. Lawrence, Quebec as a port and manufacturing center, points of historical interest in Quebec, a cross-section of the lower St. Lawrence valley, southern edge of the Laurentian upland, the asbestos industry of the Thetford Mines and a second cross-section of the Appalachians.

As the party will cross rapidly a number of distinct geographic regions, it is recommended that all members of the party become acquainted with this region through the literature cited in a list which will be provided to students as they enroll.

The party will leave Worcester at 8 A. M., Eastern Standard Time, Saturday, August 10, and will return to Worcester on the afternoon of Friday, August 30. Three semester hours of credit for

preliminary reading and satisfactory field work and notes. One additional hour of credit may be earned by a special project arranged for with the instructor. This trip will be in charge of Dr. Clarence F. Jones, of Clark University, who has done extensive field work in the region. Inquiries concerning this trip may be addressed to Clark University Summer School or to Dr. Jones. Several members of the former Canadian trips have already made reservations.

The tuition fee for this trip is \$20; the cost of transportation is \$100; hotel expenses, including meals, are estimated at \$80. Payment for tuition and transportation will be made to Clark University. A payment of \$20 is made at time of enrollment. The balance, \$100, is payable on or before July 15. Reservation, without payment, will be made on request, and definite enrollment will follow on payment of \$20. Make checks payable to Douglas C. Ridgley, Director, Clark University Summer School.

#### CREDIT FOR FIELD TRIPS

Field trips of two weeks duration are designed to cover the equivalent of two semester hours of credit; the trip of three weeks duration, three semester hours of credit; and the Transcontinental Trip, six semester hours of credit. These trips are so credited when applied toward a degree in Clark University. This credit is increased by one hour for the field courses of two weeks or three weeks duration, and by two hours for the Transcontinental Field Trip, by the preparation of an acceptable geographic study of some phase of the field studies in form and extent satisfactory to the instructor. This written report is due on or before January 15, 1930.

The work for credit involves the preparation of the field notes

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(Describe by Subject and Number, i.e., Geography 101)

If you are not a graduate of a college, technical, normal, or secondary school, not a college student, and not a teacher, send a letter with this application stating your qualifications for the work which you desire to do.

under the direction of the instructor, and such preliminary reading and study as may be outlined by the instructor. A certificate, with a statement of the course and grade received, will be furnished soon after the instructor's report is filed with the Registrar.

The field trips are a part of the regular Summer School work, and count as residence courses. The field trips of two weeks or three weeks duration count for two and three weeks of residence, respectively. The Transcontinental Trip counts as six weeks of residence, the equivalent of the full period of the Summer Session.

#### CLASSROOM AIDS FOR TEACHERS OF GEOGRAPHY

Clark University, through its School of Geography, wishes to extend to teachers in service facilities for obtaining, at nominal cost, valuable aids for making geography real and concrete to pupils. This service is provided by the Home Study Department and places within reach of every teacher and school three kinds of classroom aids for the teaching of geography: (1) Illustrated pamphlets; (2) Museum exhibits; (3) Publications of special interest to geography teachers.

#### ILLUSTRATED PAMPHLETS FOR CLASSROOM USE

Through the generous co-operation of government bureaus of the United States and foreign countries, tourist bureaus, transportation companies, manufacturers, importers, and other business houses at home and abroad, Clark University has assembled illustrated pamphlets, booklets, maps, charts and posters of great variety, and of immediate value to the classroom teacher. A nominal charge is made to cover the cost of handling and shipping this material. A package of thirty or more selected pamphlets will be sent to any address, postpaid, for \$1.00. A larger assortment will be sent for \$2.00, \$3.00, \$4.00, or \$5.00. Each dollar after the first will secure a larger supply than the first dollar, because of decreased cost in packing and in parcel post charges. A \$5.00 package will probably con-

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tain more than 200 pieces of illustrated material. A \$10 package will contain over 400 pieces of literature, and will include many publications secured by extensive international correspondence.

Due consideration will be given to requests for material covering certain phases of geography, such as:

Home GeographyTransportationEuropeFoodManufactureAsiaClothingUnited StatesAfricaShelterSouth AmericaAustralia

The Home Study Department of Clark University has become a center of exchange for more than a thousand different kinds of illustrated literature. Numerous publications have been obtained in generous quantities that could not be obtained by the individual teacher. This generous cooperation from all parts of the world is growing.

Address all communications to

Clark University, Home Study Department Worcester, Massachusetts

#### MUSEUM EXHIBITS FOR CLASSROOM USE

Exhibits of important products will be furnished at cost of preparation and transportation. Manufacturers, producers, and importers are generous in supplying materials in bulk. These are prepared in convenient form for examination and study. The specimens are placed in glass tubes, sealed, and labeled. Most of the exhibits are accompanied with appropriate literature.

The tubes may be exhibited on a desk or table in the schoolroom or they may be passed among the pupils for careful examination under the supervision of the teacher. The tubes containing the specimens may be mounted by the teacher and pupils on wood, composition board, beaver board, or other suitable material, with maps and pictures pertaining to the specimens, thus making an attractive exhibit easily and effectively displayed. Instructions for mounting will be sent with each order.

The nominal charge made for these exhibits is necessary to cover the cost of securing the materials, preparing the exhibits for classroom use, packing them for shipment, and for transportation charges. The order blank may be used in ordering these museum materials.

# Order Blank for Geographic Museum Exhibits

CLARK UNIVERSITY, HOME STUDY DEPARTMENT, WORCESTER, MASS.

NOTE. If the order is for \$5.00 or more, deduct 10 per cent; if \$20.00 or more, deduct 20 per cent. If the order is for the entire exhibit, deduct 25 per cent. All shipments are sent postpaid.

Please mark the package as follows:

	Name
	Street and Number
	City and State
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### Museum Exhibits Now Available

Asbestos		sample v				\$ .20
Asphalt	2	samples	with	literature		.30
Bakelite		sample				.05
Borax	4	samples				.40
Botanical Drugs		samples				1.20
Carpets	3	samples	with	literature		.30
Celluloid				literature		.55
Cereals	17	samples	with	literature		2.00
Cocoa	4	samples	with	literature		.50
Coffee	6	samples	with	literature		.70
Cotton	5	samples				.60
Dyewoods	6	samples				.60
Fertilizers	12	samples	with	literature		1.30
Flour	9	samples				.90
Ford Products	8	samples				.80
wood by-products						
Fuels	7	samples				.80
Glue	5	samples	with	literature		.50
Minerals	10	samples				1.50
Naval Stores	16	samples	with	literature		1.00
(pine tree products)		•				
Portland Cement	8	samples	with	literature		.80
Rattan	3	samples				.15
Rubber	6	samples				.35
Seeds	11	samples				1.20
Shellac	4	samples	with	literature		.50
Soap				literature		1.80
Soils				literature		.80
Spices	29	samples	with	literature		3.00
Starches		samples				1.20
Sulphur			with	literature		.40
Tapioca		samples				.40
Tea			with	literature		1.00
Wire Netting				literature		.15
Woods				pictures of	trees	1.80
Wool		samples		r-staros or		1.50
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DISCOUNTS: If an order amounts to \$5.00 or more, deduct 10 per cent.; if \$20.00 or more, deduct 20 per cent. If the entire set of exhibits is ordered at one time, deduct 25 per cent. Orders from individuals should be accompanied by full payment in any convenient form. Orders from Boards of Education may be made according to their usual plans for purchasing school supplies.

Correspondence is invited. Address: Clark University, Home Study Department, Worcester, Massachusetts.

#### Please send the exhibits checked in the following list:

Asbestos	\$ .20	Minerals	1.50
Asphalt	.30	Naval Stores	1.00
Bakelite	.05	Portland Cement	.80
Borax	.40	Rattan	.15
Botanical Drugs	1.20	Rubber	.35
Carpets	.30	Seeds	1.20
Celluloid	.55	Shellac	.50
Cereals	2.00	Soap	1.80
Cocoa	.50	Soils	.80
Coffee	.70	Spices	3.00
Cotton	.60	Starches	1.20
Dyewoods	.60	Sulphur	.40
Fertilizers	1.30	Tapioca	.40
Flour	.90	Tea	1.00
Ford Products	.80	Wire Netting	.15
Fuels	.80	Woods	1.80
Glue	.50	Wool	1.50

(OVER)

#### THREE PUBLICATIONS FOR GEOGRAPHY TEACHERS

Clark University has published three pamphlets of special value to teachers of geography. These are: (1) A bibliography of the pedagogy of geography; (2) A bibliography of reference reading in geography; (3) a monograph on place geography. They are here briefly described.

- 1. Frederick K. Branom: A Bibliography of Recent Literature on the Teaching of Geography. Fifth Revised Edition, 1927. Price 25 cents. More than 600 references to books and magazine articles are classified under 22 topical headings. You can select readings of immediate value in your teaching problems if you have this bibliography.
- 2. Ella B. Knight: A Bibliography of Geographical Literature for Elementary Grades and Junior High School. Second Revised Edition, 1928. Price 25 cents. More than 500 choice books are listed with annotations. You can select supplementary reading in geography with assurance, if you have this bibliography.
- 3. Douglas C. Ridgley: A Study of Children's Learning about Places. Price 80 cents. A monograph of 142 pages with 30 graphs. A discussion of place geography with practical suggestions for the study of places in the regular geography work. A classified list of 1,200 important places enables teacher and pupils to center attention on the places worthy of special study.

These three publications will be sent to any address, postpaid, for \$1.00. in a single order.

Address: Clark University, Home Study Department, Worcester, Massachusetts

#### A MAGAZINE FOR GEOGRAPHY TEACHERS

Economic Geography is a quarterly journal published by Clark University. Its articles cover many phases of industry and commerce. It is a most valuable reference for classes in geography in any school, but it is especially adapted to the needs of high school, normal school, college, and university.

## Order Blank for Home Study Lessons and other Items

CLARK UNIVERSITY,
HOME STUDY DEPARTMENT,
WORDESTER MASSACHUSETTS

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	You	n may also send the other items checked on this form:
[	]	Home Study Bulletin. No charge.
E	]	Summer School Bulletin for 1929. No charge.
[.	]	Annual Catalogue of Clark University. No charge.
[	]	Statement of the requirements for the degree Bachelor of Education
		at Clark University. No charge.
E	]	Further information about the Quarterly Journal, Economic Geogra-
		phy. No charge.
[	]	Enclosed find \$1.00 for selected printed material for teaching
		geography.
[	]	Enclosed find 25c for Branom's Bibliography.
	]	Enclosed find 25c for Knight's Bibliography.
[	]	Enclosed find 80c for Ridgley's Monograph on Place Geography.
[	]	Enclosed find \$1.00 for the three foregoing publications.
	]	Enclosed find \$2.00 for the selected materials and for the three
		publications.
	]	Enclosed find \$ for as large an assortment of selected material
		as this amount will nay for

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# Clark University Bulletin

Catalogue Number

1928-1929





# Clark University Bulletin

NUMBER 66

FEBRUARY 1929

# Catalogue Number

The Catalogue is a record for the current academic year, 1928-29. Such announcements for the year 1929-30 as can be made at the time of publication are included.

The Bulletin is published in January, February, March, April, May, June, October, November, and December

Entered as second-class matter December 29, 1920, at the Post Office at Worcester, Mass., under the Act of August 24, 1912. Acceptance for mailing at special rate of postage provided for in section 1103, Act of October 3, 1917, authorized January 24, 1921.

# HISTORICAL NOTE

The University owes its existence to the interest in higher education of Jonas Gilman Clark, who was born at Hubbardston, Worcester County, Massachusetts, February 1, 1815. Conscious of the meagreness of his own early educational opportunities, he devoted his later years to the establishment and nurture of the institution which bears his name. In this he was ably assisted by his wife, Susan W. Clark, and by prominent citizens of Worcester. Mr. Clark died at Worcester on May 23, 1900.

The charter of the University was granted by the General Court of Massachusetts in 1887. The Graduate Division, with Granville Stanley Hall as president, received its first students in 1889. Special provision was made in Mr. Clark's will for the establishment of a collegiate Undergraduate Division with its own president but under the same general control as the Graduate Division. Carroll Davidson Wright was chosen president of the Undergraduate Division and students were first received in October, 1902. After the death of President Wright in 1909, Edmund Clark Sanford, then Professor of Psychology in the Graduate Division, was chosen as President of the college.

In June, 1920, Presidents Hall and Sanford resigned and Wallace Walter Atwood was elected to the presidency of both the Graduate and the Undergraduate Divisions of the University.

During the academic year 1920-21 the two faculties continued their separate organizations while plans for unification were being worked out. These plans, approved by the Board of Trustees, went into effect in 1921-22 and provided for the fusion of the two faculties into a single body.

With the election of President Atwood, provision was made for the establishment of a Graduate School of Geography, and work in that school was begun in the fall of 1921.

A Summer School with a six weeks' session has been conducted each year, beginning in 1921.

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# **CALENDAR**

The academic year begins on the fourth Thursday in September. Commencement Day is the thirty-eighth Monday following (the second or third Monday in June).

The first semester ends on the Saturday before the nineteenth Monday and the second semester begins on the nineteenth Monday of the academic year.

#### 1928

Sept. Oct. Nov. Nov. Dec. Dec.	12. 24.	Thursday Friday Saturday Wednesday Monday Saturday	Academic year began. Registration day. Columbus Day. A holiday. Mid-semester reports. Thanksgiving recess began at 1 P. M. Thanksgiving recess ended at 8 A. M. Christmas recess began at 1 P. M.
192	9		
Jan.	7.	Monday	Christmas recess ended at 8 A. M.
Jan.	24.	Thursday	Semester examinations began at 2 P. M. Regis-
3			tration day for second semester.
Feb.	1.	Friday	Founder's Day. Not a holiday.
Feb.	2.	Saturday	End of first semester.
Feb.	4.	Monday	Second semester begins.
Feb.	22.	Friday	Washington's Birthday. A holiday.
Mar.	1.	Friday	Last day for receiving applications for graduate
			scholarships and fellowships for 1929-30.
Apr.	6.	Saturday	Mid-semester reports.
Apr.	13.	Saturday	Spring recess begins at 1 P. M.
Apr.	22.	Monday	Spring recess ends at 8 A. M.
May	4.	Saturday	Sub-Freshman Day.
May	30.	Thursday	Memorial Day. A holiday.
June		Thursday	Semester examinations begin at 2 P M.
June	13.	Thursday	Last day of semester examinations.
June	14.	Friday	Dissertations and theses for the Ph.D. and M.A.
			degrees are due at the office of the Secretary of
Ψ .	4 144	3.5 1	the Graduate Board.
June	17.	Monday	Commencement Day.
July	1.	Monday	Summer School opens. Registration day.
July	6.	Saturday	Last day for payment of Summer School tuition.
Aug.	8.	Thursday	Final Assembly of the Summer School at 8 P. M. Conferring of degrees.
Aug.	9.	Friday	Summer School closes.

Sept. Oct.	26. 5.	Thursday Saturday	Academic year begins. Registration day.  Last day for payment of term bills. Last day
			for changes in undergraduate programs.
Oct.	12.	Saturday	Columbus Day. A holiday.
Oct.	26.	Saturday	Last day for receiving applications for admis-
			sion to candidacy for the degree of Doctor of
wow		5	Philosophy in June 1930.
Nov.	23.	Saturday	Mid-semester reports.
Nov.	27.	Wednesday	Thanksgiving recess begins at 1 P. M.
Dec.	2.	Monday	Thanksgiving recess ends at 8 A. M.
Dec.	21.	Saturday	Christmas recess begins at 1 P. M.
193	0		
Jan.	6.	Monday	Christmas recess ends at 8 A. M.
Jan.	23.	Thursday	Semester examinations begin at 2 P. M. Regis-
		•	tration day for second semester.
Feb.	1.	Saturday	Founder's Day. Not a holiday.
			End of first semester.
			Last day for receiving applications for under-
			graduate scholarships for the second semester.
Feb.	3.	Monday	Second semester begins.
Feb.	8,	Saturday	Last day for changes in undergraduate pro-
			grams. Last day for receiving applications for
			admission to candidacy for the degree of Master
			of Arts in June, 1929.
Feb.	12.	Wednesday	Last day for payment of term bills.
Feb.	22.	Saturday	Washington's Birthday. A holiday.
Mar.	1.	Saturday	Last day for receiving applications for graduate
		0 . 1	scholarships and fellowships for 1930-31.
Apr.	5.	Saturday	Mid-semester reports.
Apr.	12.	Saturday	Spring recess begins at 1 P. M.
Apr.	21.	Monday	Spring recess ends at 8 A. M.
May	3.	Saturday	Sub-Freshman Day.
May		Friday	Memorial Day. A holiday.
June		Thursday	Semester examinations begin at 2 P. M.
June		Thursday	Last day of semester examinations.  Dissertations and theses for the Ph.D. and M.A.
June	13.	Friday	degrees are due at the office of the Secretary
			of the Graduate Board.
June	16.	Monday	Commencement Day.
June	10.	Monday	Commencement Day.

# BOARD OF TRUSTEES

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Final authority in all matters perta	aini	ing to the University is
1 1 . 1		a amounts of her than Community

Final authority in all matters pertaining to the University is lodged in the Board of Trustees by charter granted by the General Court of the Commonwealth of Massachusetts.

# ADMINISTRATIVE OFFICERS

President of the University and Director	of
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Librarian and Curator of the Art Collection	on L. N. Wilson
Dean of the College	H. P. LITTLE
Director of the Summer School	D. C. RIDGLEY
Director of the Home Study Department	D. C. RIDGLEY
Registrar	C. E. MELVILLE
Bursar	FLORENCE CHANDLER

# UNIVERSITY STAFF

For Summer School Faculty see page 83

WALLACE WALTER ATWOOD, PH.D. 160 Woodland St.

President, 1920-. Professor of Physical and Regional Geography. Director of the Graduate School of Geography. Editor, *Economic Geography*.

B.S., University of Chicago, 1897; Fellow, Assistant, and Associate, 1899-1903; Ph.D., 1903; Instructor and Assistant Professor of Physiography and General Geology, 1903-10; Associate Professor, 1910-13. Instructor, Lewis Institute, Chicago, 1897-99. Instructor, Chicago Institute, 1900-01. Professor of Physiography, Harvard University, 1913-20. Geologist, U. S. Geological Survey. Fellow, American Academy of Arts and Sciences. Member, Geological Society of America, American Antiquarian Society, Chicago Academy of Sciences and the Association of American Geographers. President, National Council of Geography Teachers, 1920-21. Swedish Anthropological and Geographical Society, Honorary Senator, University of Breslau.

WILLIAM EDWARD STORY, Ph.D. 17 Hammond St.

Professor of Mathematics, 1889-1921. Professor
Emeritus.

Louis N. Wilson, Litt.D. 11 Shirley St.

Librarian, 1889-. Custodian of the Art Collection.

Litt.D., Tufts College, 1905.

Henry Taber, Ph.D. 2 Pleasant Place
Professor of Mathematics, 1903-21. Professor Emeritus.

WILLIAM HENRY BURNHAM, Ph.D. 20 John St.

Professor of Education and School Hygiene, 1906-26.

Professor Emeritus.

Benjamin Shores Merigold, Ph.D. 166 Woodland St.

Professor of Chemistry. Director of the Chemical Laboratories.

Instructor in Chemistry, 1905-12, 1916-20; Professor, 1920-.
Assistant Professor of Chemistry, Clark College, 1903-08; Professor, 1908-20.

A.B., Harvard University, 1896; Assistant in Chemistry, 1896-1900; A.M., 1897; Ph.D., 1901. Instructor in Chemistry, Worcester Polytechnic Institute, 1900-03.

### FRANK BLAIR WILLIAMS, PH.D.

24 Loudon St.

Professor of Mathematics.

Scholar in Mathematics, 1897-98; Fellow, 1898-1900; Ph.D., 1900; Instructor, 1910-20; Professor, 1920.

Assistant Professor of Mathematics, Clark College, 1907-08; Professor, 1908-20.

C.E., University of Missouri, 1890; M.S., 1893; Teaching Fellow, 1892-93. Engineering Work, United States Government Surveys, 1890-92 and 1894; U.S. Asst. Engineer, 1895-97. Assistant Professor of Engineering, Union College, 1900-04; Professor of Engineering Mathematics, 1904-07.

George Hubbard Blakeslee, Ph.D., L.H.D. 21 Downing St. Professor of History and International Relations.

Instructor in History, 1905-11; Professor, 1911.

Instructor, Clark College, 1903-04; Assistant Professor, 1904-09; Professor, 1909-20.

A.B., Wesleyan University, 1893; L.H.D., 1923. Graduate student, Johns Hopkins University, 1893-94; Harvard University, 1898-1901; A.M., 1900; Parker Fellow, 1901-02; Ph.D., 1903. Universities of Berlin, Leipzig, and Oxford, 1901-03. Member of the Commission of Inquiry to prepare data for the United States Delegation to the Peace Conference, 1918-19. Member of the Council of the American Antiquarian Society. Member of Technical Staff, American Delegation, Conference on Limitation of Armament, Washington, 1921-22. Visiting Carnegie Professor of International Relations to Universities in Japan, Australia and New Zealand, 1927-28.

CHARLES BREWSTER RANDOLPH, Ph.D.

10 Otsego Rd.

Professor of German.

Professor of German, 1920. Secretary of the Summer School, 1921. Director of the Summer School, 1921-24.

Instructor in Greek, Clark College, 1903-04; Instructor in Greek and Latin, 1904-05; Assistant Professor, 1905-10; Professor of Latin, 1910-18; Professor of Latin and German, 1918-20.

A.B., Wabash College, 1896. Graduate Student, Harvard University, 1901-03; A.M., 1902; Ph.D., 1905. Instructor in Greek and Latin, University of Illinois Preparatory School, 1897-1900. Student, University of Halle, 1900-01.

### PHILIP HUDSON CHURCHMAN, PH.D.

20 Institute Rd.

Professor of Romance Languages, 1920-.

Assistant Professor of Romance Languages, Clark College, 1908-11; Professor, 1911-20.

A.B., Princeton University, 1896; A.M., 1903; Instructor in French, 1900-04. Master, Chestnut Hill Academy, Philadelphia, 1897-99. Student, Universities of Paris and Grenoble, 1899-1900, 1903-04. Instructor in French and Spanish, United States Naval Academy, 1904-05. Graduate Student, Harvard University, 1905-08; Instructor in Romance Languages, 1906-08; Ph.D., 1908. Visiting Lecturer in the University of Chicago, Summer Quarter, 1912.

# HAVEN DARLING BRACKETT, PH.D.

114 Woodland St.

Professor of Greek and Latin, 1920-.

Instructor in Greek and Latin, Clark College, 1904-06; Assistant Professor, 1906-10; Assistant Professor of Greek, 1910-12; Professor of Greek, 1912-15; Professor of the Greek Language and Literature, 1915-20.

A.B., Amherst College, 1898. Master in Greek, Mercersburg Academy (Pennsylvania), 1898-99. Master in Greek, Lake Forest Academy (Illinois), 1899-1900. Sub-master, Boston Latin School, 1900-01. Graduate Student, Harvard University, 1901-04; Ph.D., 1904; Assistant in Ancient History, Harvard University, and Lecturer in Greek History, Radcliffe College, 1903-04.

LEROY ALLSTON AMES, A.M.

166 Woodland St.

Professor of English Literature, 1920-.

Instructor in English Literature, Clark College, 1908-10; Assistant Professor, 1910-15; Professor, 1915-20.

A.B., Harvard University, 1896; Assistant in English, 1899-1900; Graduate Student, 1899-1901; A.M., 1901. Instructor in English, Browne and Nichols School, Cambridge, Mass., 1896-99; Worcester English High School, 1901-06; Noble and Greenough School, Boston, Mass., 1906-07.

### LORING HOLMES DODD, PH.D.

88 Sagamore Rd.

Professor of Rhetoric, 1920-.

Instructor in English, Clark College, 1910-13; Assistant Professor, 1913-16; Associate Professor, 1916-20.

A.B., Dartmouth College, 1900. A.M., Columbia University, 1901. Ph.D., Yale University, 1907. Instructor, Choate School, Wallingford, Conn., 1901-02. Instructor in English, St. Paul's School, Garden City, N. Y., 1907-10.

### ROBERT HUTCHINS GODDARD, Ph.D.

17 Gates Lane

Professor of Physics. Director of the Physical Laboratories.

Student in Physics, 1908-09; Fellow, 1909-11; A. M., 1910; Ph.D., 1911; Honorary Fellow, 1911-12, 1914-15, 1919-20; Instructor in Physics, 1916-18; Professor, 1920-.

Instructor in Physics, Clark College, 1914-15; Assistant Professor, 1915-19; Associate Professor, 1919-20.

B.S., Worcester Polytechnic Institute, 1908; Instructor in Physics, 1908-09. Research Instructor in Physics, Princeton University, 1912-13. Director of Research under U. S. Signal Corps, Worcester Polytechnic Institute and Mt. Wilson Observatory, 1918.

## \*\*\*Homer Payson Little, Ph.D.

156 Woodland St.

Professor of Geology and Dean of the College 1922-.

A.B., Williams College, 1906. Fellow, Johns Hopkins University, 1909-10; Ph.D., 1910. Instructor and later Professor of Geology, Colby College, 1910-20. Lecturer in Geology, Bangor Theological Seminary, 1913, 1916, 1919. U. S. Geological Survey, 1907. Maryland Geological Survey, 1908-10. Instructor, Johns Hopkins Summer School, 1921. Executive Secretary, Division of Geology and Geography of the National Research Council, 1920-22.

<sup>\*\*\*</sup>Absent on leave, second semester, 1928-29.

\*Samuel J. Brandenburg, Ph.D. 173 Woodland St. Professor of Economics and Sociology, 1923-.

A.B., Miami University, 1904. Graduate Student, University of Illinois, 1908-09, and University of Chicago, 1905-09; Ph.M., University of Chicago, 1909. Professor of Economics and Librarian, Miami University, 1909-20. Graduate Student and Assistant, University of Wisconsin, 1920-22; Ph.D., 1922. Professor of Economics and Sociology, University of Arkansas, 1922-23. Visiting Lecturer in Economics, University of Texas, Summer, 1923.

\*\*Alfred Lewis Pinneo Dennis, Ph.D. 769 Main St. Professor of Modern History.

Acting Professor of International Relations, 1922-23 Feb.-June; Professor of Modern History, 1923-.

A.B., Princeton, 1896. Student, Columbia, Heidelberg, and Harvard Universities, 1896-1901. Ph.D., Columbia University, 1901 Instructor and Professor of History and Political Science, Bowdoin College, 1901-04. Associate Professor of History, University of Chicago, 1904-05. Lecturer in History, Harvard University, 1905-06. Professor of History, University of Wisconsin, 1906-20.

Captain, Military Intelligence Division, General Staff, 1918-19. Assistant Military Attaché, American Embassy, London, reporting to Peace Conference, Paris, 1919 Awarded British Military Cross.

### CARL MURCHISON, PH.D.

11 Downing St.

Professor of Psychology, 1923-. Director of the Psychological Laboratories. Editor, The Pedagogical Seminary and Journal of Genetic Psychology; Genetic Psychology Monographs; Journal of General Psychology; Co-Editor of Social Psychology. Director of the Clark University Press.

A.B., Wake Forest College, 1909. Rumrill Fellow, Harvard University, 1909-10. Student, Rochester Theological Seminary, 1910-13; Student, Yale University, 1914-(Jan.) 16. Assistant Professor of Psychology, Miami University, 1916-19; on leave 1917-19, 1922-23; Associate Professor, 1919-23. Instructor, Army School for Military Psychology, Camp Greenleaf, Georgia, 1918. Psychological Examiner and Camp Morale Officer, Camp Sherman, Ohio; Assistant, 1918-19; Chief, 1919. Johnstone Scholar, Johns Hopkins University, 1922-23; Ph.D., 1923.

<sup>\*</sup>Absent on leave, first semester, 1928-29.

<sup>\*\*</sup>Absent on leave, second semester, 1928-29.

\*\*Ellen Churchill Semple, A.M., LL.D. 941 Main St.

Professor of Anthropogeography.

Lecturer in Anthropogeography, 1921-22; Acting Professor, 1922-23; Professor, 1923-.

A.B., Vassar College, 1882; A.M., 1891. LL.D., University of Kentucky, 1923. Student Leipzig University, 1891-92, 1895. Lecturer, University of Chicago between 1906-1923. Lecturer at School of Geography, Oxford University, England, summer terms 1912, and 1922. Ex-President, Association of American Geographers. Gold Medalist of American Geographical Society.

WILLIAM HOMER WARREN, PH.D. 166 Woodland St.

Professor of Organic Chemistry, 1925 (Feb)-.

Assistant Professor of Chemistry, Clark College, 1911-12.

A.B., Harvard University, 1889; A.M., 1891; Ph.D., 1892. Instructor in Chemistry, Medical Department, Washington University, 1898-99; Assistant Professor, 1899-1900; Professor, 1900-11; Dean, 1908-11. Professor of Chemistry, Wheaton College, 1912-17. Captain, Q.M.C. and C.W.S., 1917-19. Research Chemist, 1919-25.

Walter Samuel Hunter, Ph.D. 171 Woodland St.

G. Stanley Hall, Professor of Genetic Psychology, 1925-Editor, Psychological Abstracts, Psychological Index.

A.B., University of Texas, 1910; Instructor in Philosophy, 1912-14; Adjunct Professor of Psychology, 1914-16. Ph.D., University of Chicago, 1912. Professor of Psychology, University of Kansas, 1916-25. Visiting Professor, Summer Session, Tulane University, 1915; State University of Iowa, 1920; University of Chicago, 1923; University of California, Southern Branch, 1926; Northwestern University, 1927; First Lieutenant and Captain, Sanitary Corps, Psychology Division, U. S. A., September, 1917, to December, 1918; Visiting Professor, Harvard University, 1927-28 (first semester), 1928-29.

<sup>\*\*</sup>In residence for first semester only.

CHARLES FRANKLIN BROOKS, Ph.D.

209 Lovell St.

Professor of Meteorology and Climatology.

Associate Professor, 1921-26; Professor, 1926-.

A.B., Harvard University, 1911 (as of 1912); A.M., 1912; Research Assistant, Blue Hill Observatory, 1912-13; Assistant in Meteorology and Physical Geography, 1913-14; Ph.D., 1914. Assistant in Physical Geography, Radcliffe, 1914. Assistant in Farm Management, United States Department of Agriculture, 1914-15, 1917-18; Collaborator, 1915-16. Instructor in Geography, Yale University, 1915-18. Instructor in Meteorology, United States Signal Service, 1918. Meteorologist, United States Weather Bureau, 1918-21. Secretary (1919-), and Editor American Meteorological Society. Fellow, Royal Meteorological Society. Member, Association of American Geographers.

Douglas Clay Ridgley, Ph.D.

166 Woodland St.

Professor of Geography in Education. Director of the Summer School. Director of the Home Study Department.

Lecturer and Honorary Fellow in Geography, 1922-23; Special Lecturer and Fellow, 1923-24; Ph.D., 1925. Associate Professor, 1924-27; Professor, 1927-.

A.B., Indiana University, 1893. High School Instructor and Principal, Chicago Schools, 1895-1903. Professor of Geography and Head of Department of Geography, Illinois State Normal University, 1903-1922; on leave, 1921-22. Graduate Student, University of Chicago, 1921-22; M.S., 1922. Professor of Geography, First College Cruise around the World, 1922-27.

Walter Elmer Ekblaw, Ph.D. Box 431, No. Grafton, Mass.

Professor of Geography. Assistant Editor, Economic Geography.

Honorary Fellow in Geography, 1924-26; Ph.D., 1926; Associate Professor, 1926-28; Professor, 1928-.

A.B., University of Illinois, 1910; Research Fellow, 1910-13; A.M., 1912. Botanist and Geologist, Crockerland Arctic Expedition, 1913-17. Research Associate, American Museum of Natural History, New York, and Research Scholar, University of Illinois, 1917-20. Field Geologist, 1920-1924.

JAMES BLAINE HEDGES, PH.D.

25 Delawanda Dr.

Professor of American History.

Assistant Professor, 1924-26; Associate Professor, 1926-28; Professor, 1928-.

A.B., University of Missouri, 1915; A.M., 1916. Fellow in History, Harvard University, 1916-17; Austin Teaching Fellow, 1919-20, 1922-23; Ph.D., 1924. Instructor in History, University of Oklahoma, 1920-21. Assistant Professor of History, Mills College, 1921-22. Secretary and Archivist, Harvard University Commission on Western History, 1923-24.

\*Clarence Fielden Jones, Ph.D.

193 Lovell St.

Professor of Economic Geography. Associate Editor, Economic Geography.

Assistant Professor, 1923-26; Associate Professor, 1926-28; Professor, 1928-.

B.S., University of Chicago, 1917; Assistant and Graduate Student, Department of Geography, 1919-23; Ph.D., 1923. Head of Department of Geography, State Normal School, St. Cloud, Minn., 1917-18. Instructor in Geography, Illinois State Normal University, Summer Session, 1920. Visiting Professor in Geography, Iowa State University, Summer Sessions, 1924 and 1925. Lecturer in Geography, Western Illinois State Teachers College, Summer Session, 1924. Member, Association of American Geographers.

John Paul Nafe, Ph.D.

1 Freeland St.

Professor of Psychology.

Assistant Professor of Psychology, 1924-25; Associate Professor, 1925-28; Professor, 1928-.

A.B., University of Colorado, 1911. Assistant in Psychology, Cornell University, 1921-22; Instructor, 1922-24; Ph.D., 1924.

CAREY EYSTER MELVILLE, A.B.

16 Isabella St.

Associate Professor of Mathematics. Registrar. Secretary of the Graduate Board.

Honorary Fellow in Mathematics, 1906-15; Associate Professor, 1920-; University Registrar, 1922-.

Assistant in Mathematics, Clark College, 1906-09; Instructor, 1909-10; Instructor in Mathematics and Physics, 1910-11; Assistant Professor, 1911-14; Assistant Professor of Mathematics, 1914-18; Associate Professor, 1918-20; Registrar, 1914-22.

A.B., Northwestern University, 1901; Teaching Fellow in Mathematics, 1901-02. Graduate Student, Johns Hopkins University, 1902-03. Instructor in Mathematics, Case School of Applied Science, 1903-06.

<sup>\*</sup>Absent on leave, first semester, 1928-29.

VERNON JONES, PH.D.

12 May St.

Associate Professor of Educational Psychology, 1926.

Principal of High School, 1919. (A.B., and A.M., University of Virginia, 1920) Teacher of Educational Psychology, Summer term, Market Principal of Schools, 1920-23; (A.M., Columbia University, 1924) Associate in Education, 1925-26; (Ph.D., 1926.) Director of Research, Public Schools, Richmond, Virginia, 1924-25.

JAMES ACKLEY MAXWELL, PH.D.

1 Freeland St.

Associate Professor of Economics.

Instructor in Economics, 1924-26; Assistant Professor, 1926-28; Associate Professor, 1928-.

A.B., Dalhousie University, 1921; A.M., Harvard University, 1923; Ph.D., 1927 (Feb.).

LELAND LEAVITT ATWOOD, PH.D.

68 Mann St.

Assistant Professor of Romance Languages, 1926.

A.B., Clark College, 1916; Instructor, Summer Session, 1924.

Instructor in Romance Languages, Cornell University, 1917-24; (1917-November-1919 in military service) A.M., 1922; Ph.D., 1927.

Student, University of Paris, March-July, 1919. Instructor in Romance Languages, North Carolina College for Women, 1924-25;

JESSE LUNT BULLOCK, A.M.

Assistant Professor, 1925-26.

35 Downing St.

Assistant Professor of Chemistry, 1926-.

A.B., Harvard, 1914; Graduate Student and Assistant in Chemistry, 1914-15; A.M., 1928. Industrial Research, The Calco Chemical Company and the Diamond Match Company, 1915-22. Chief Chemist, The Granton Chemical Company, 1922-24. Consulting Chemist, 1924-26.

ARTHUR FLETCHER LUCAS, Ph.D.

36 Richards St.

Assistant Professor of Economics and Sociology, 1926-. A.B., Bates College, 1920. Instructor in Economics, Princeton University, 1920-22, 1924-26; Fellow in Economics, 1922-24; A.M., 1923; Ph.D., 1925; Professor of Economics, University of the South, Summer Quarter, 1928.

DUDLEY WILSON WILLARD, PH.D.

20 Downing St.

Assistant Professor of Sociology, 1926-.

A.B., University of Washington, 1917; A.M., 1922; Arthur A. Denney Fellow in Education, 1922-24; Ph.D., 1927. Associate in Research, Lincoln School of Teachers College, Columbia University, 1924-25; Graduate Student, Columbia University, 1925-26.

GEORGE ELISHA BAKER, A.M.

Estabrook Hall

Assistant Professor of English. Proctor, Estabrook

A.B., 1922; Assistant in English, 1924 (Feb.-June); Instructor 1925-27; Assistant Professor, 1927-.

Instructor in English, Dartmouth College, 1922-23. Instructor, Amherst, Mass., High School, 1923 (half year). Graduate Student, Harvard University, 1924-25; A.M., 1925. Student, Emerson College of Oratory, summer session, 1926.

### Heinrich Bosshard, Ph.D.

12 Shirley St.

Assistant Professor of German, 1927-.

Ph.D., University of Zürich, Switzerland, 1919. Student, University of Grenoble, France, Summer Sessions, 1914 and 1916. M.Ed., Harvard University, 1921; Instructor in German, 1921-22, 1926-27. Assistant Professor of German, University of North Carolina, 1922-23. Study and Travel, 1923-24. Instructor, Odenwald schule, Oberhambach, Germany, 1924-26. Instructor, Harvard University, 1926-27.

### DWIGHT ERWIN LEE, PH.D.

3 Wyman St.

Assistant Professor of Modern European History, 1927-A.B., University of Rochester, 1921; A.M., 1922; Assistant in History, 1921-22; Instructor, 1922-24. Graduate Student, University of Michigan Summer School, 1922. Graduate Student, Harvard University, 1924-27; Francis Parkman Fellow, 1925-26; Bayard Cutting Travelling Fellow, 1926-27; Ph.D., 1928 (Feb.). Research in Paris, London, and Vienna, 1924, 1925, and 1926-27.

### DAVID POTTER, M.Sc.

15 Shirley St.

Assistant Professor of Biology.

Instructor in Biology, 1924-27; Assistant Professor, 1927-.

B.Sc., Massachusetts Agricultural College, 1916; Graduate Student and Assistant in Botany, 1921-23; M.Sc., 1923. Instructor in Biology, Albion College, 1923-24.

### PERCY MARTIN ROOPE, PH.D.

36 Richards St.

Assistant Professor of Physics.

A.B., Clark College, 1920; Instructor in Physics, 1921-27; A.M., 1924; Honorary Fellow, 1924-25; Fellow, 1925-26; on leave, 1926-27; Ph.D., 1927; Assistant Professor, 1927-.

Instructor in Physics, Kalamazoo College, 1920-21. Graduate Student, Massachusetts Institute of Technology, 1926-27.

S. VAN VALKENBURG, PH.D.

15 Hadwen Lane

Assistant Professor of Geography.

Special Lecturer in Geography, second semester, 1926-27; Assistant Professor, 1927-.

OSCAR WHITE RICHARDS, A.M.

12 May St.

Assistant Professor of Biology, 1928 (Feb)-.

A.B., University of Oregon, 1923; Teaching Fellow, 1923-25; A.M., 1925; Instructor, 1925-26; Assistant, Hopkins Marine Station of Stanford University, summer, 1926. Fellow, Graduate School, Harvard University, 1926-28; Ralph Sanger Scholar, 1926-27.

CURTIS F. MARBUT, LL.D.

Special Lecturer in Geography.

HARRY E. MILLER, PH.D.

Special Lecturer in Economics,

GUY H. BURNHAM, A.M.

19 Bowdoin St.

Cartographer, Graduate School of Geography.

ERNEST RAYMOND WHITMAN

48 Downing St.

Director of Physical Education.

RALPH WARNER ELLIS, M.D.

574 Main St.

Medical Director.

FLORENCE CHANDLER Bursar.

18 Downing St.

DEAN WINSLOW HANSCOM, A.B.

Waban, Mass.

Director of the Musical Clubs. Eugene C. Belknap

Curator, Department of Chemistry.

9½ Hancock St.

15 Shirley St.

John W. Boardman

Superintendent of Buildings and Grounds.

STUDENT ASSISTANTS

Chemistry

ERNEST G. PETERSON, A.B.

JOHN M. SPADOLA, A.B.

STANLEY H. WHITING, A.B.

FRANK W. WILDER, A.B.

Economics and Sociology

ALLEN E. ANDRESS, A.B.

Albert J. Schwieger, A.B.

ELLA L. VINAL, B.S.

### Geography

CARLETON P. BARNES, A.M.
MEREDITH F. BURRILL, A.M.
FLOYD F. CUNNINGHAM, A.M.
CHARLES GOOZE, A.M.
CLARENCE E. KOEPPE, A.M.
JOHN L. PAGE, A.M.

History and International Relations
HAROLD E. CONRAD, A.B.
RAYMOND J. McGARRY, A.B.
BLAKE F. McKelvey, A.M.
ALFRED H. WHEELER, A.B.

# Physical Training George V. Kropp

ROBERT STONE, A.M.

### Psychology

MASON N. CROOK, A.M.
CLARENCE H. GRAHAM, A.M.
DOROTHEA E. JOHANNSEN, A.M.
ROBERT W. LEEPER, A.M.
NORMAN L. MUNN, A.M.

# GOVERNING BOARDS AND COMMITTEES

### THE UNIVERSITY FACULTY

The Faculty consists of the President, the Librarian, and all members of the staff giving regular courses of instruction. It has immediate supervision over the general educational work of the University and is responsible for the nomination to the Board of Trustees of candidates for baccalaureate degrees and for honorary degrees.

Secretary of the Faculty, Charles B. Randolph.

### THE UNIVERSITY SENATE

An advisory board appointed by the President President Wallace W. Atwood, ex officio

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Samuel J. Brandenburg Robert H. Goddard
Philip H. Churchman Walter S. Hunter
Loring H. Dodd Carl Murchison

Louis N. Wilson

### THE GRADUATE BOARD

The Graduate Board consists of the President and representatives of the departments offering advanced graduate instruction. It has general control of the work of the Graduate Division of the University and is responsible for the nomination to the Board of Trustees of candidates for the degrees of Master of Arts and of Doctor of Philosophy.

President Wallace W. Atwood, ex officio
George H. Blakeslee James B. Hedges
Samuel J. Brandenburg Walter S. Hunter
Charles F. Brooks Clarence F. Jones
Alfred L. P. Dennis James A. Maxwell
W. Elmer Ekblaw Benjamin S. Merigold
Robert H. Goddard Carl Murchison

Robert H. Goddard Carl Murchison
John P. Nafe Wm. H. Warren

Carey E. Melville, Secretary

### THE COLLEGIATE BOARD

The Collegiate Board consists of the President, the Dean of the College, the Registrar of the College and six members of the Faculty, appointed by the President. It has immediate supervision over the work of the Undergraduate Division subject to the direction of the Faculty and recommends to the Faculty candidates for the degree of Bachelor of Arts.

President Wallace W. Atwood
Collegiate Dean Homer P. Little
Registrar Carey E. Melville

Leland L. Atwood

Postera

M. Liber

rood Philip H. Churchman

George E. Baker David Potter

Jesse L. Bullock Douglas C. Ridgley

Dudley W. Willard Benjamin S. Merigold, Secretary

### THE COMMITTEE ON SPECIAL STUDENTS

The Committee exercises general supervision over special students including candidates for the degree of Bachelor of Education, and recommends to the Faculty candidates for this degree.

> President Wallace W. Atwood, ex officio Registrar Carey E. Melville, Chairman Collegiate Dean Homer P. Little Director of the Summer School and of the Home Study Department Douglas C. Ridgley.

> THE COMMITTEE ON THE SUMMER SCHOOL

President Wallace W. Atwood, ex officio

Director of the Summer School Douglas C. Ridgley
George H. Blakeslee Carey E. Melville

Carl Murchison

THE COMMITTEE ON PERSONNEL AND ORGANIZATION

Elected annually to advise the President regarding the personnel and the organization of departments.

George H. Blakeslee Walter S. Hunter Carey E. Melville Benjamin S. Merigold

Charles B. Randolph

### COMMITTEE ON EXTENSION COURSES

Philip H. Churchman, Chairman

Homer P. Little

Vernon A. Jones

### STANDING COMMITTEES OF THE GRADUATE BOARD

### THE COMMITTEE ON CREDENTIALS

The Committee passes upon applications for admission to the graduate division and makes recommendations to the Graduate Board in respect to Fellowships and Scholarships and candidacy for graduate degrees.

> President Wallace W. Atwood, ex officio Charles F. Brooks, Chairman

George H. Blakeslee

Samuel J. Brandenburg

### Carl Murchison

THE COMMITTEE ON PROFICIENCY IN FOREIGN LANGUAGES

The Committee examines candidates for the degree of Doctor of Philosophy for proficiency in foreign languages.

President Wallace W. Atwood, ex officio

Philip H. Churchman, Professor of Romance Languages Charles B. Randolph, Professor of German

A representative of the students' major department,

### STANDING COMMITTEES OF THE COLLEGIATE BOARD

THE COMMITTEE ON ADMISSIONS

President Wallace W. Atwood Dean Homer P. Little, Chairman Registrar Carey E. Melville

ex officio

Haven D. Brackett

Robert H. Goddard

THE COMMITTEE ON CURRICULUM

President Wallace W. Atwood Dean Homer P. Little

Registrar Carey E. Melville, Chairman

Leroy A. Ames Philip H. Churchman Dwight E. Lee Dudley W. Willard THE COMMITTEE ON STUDENTS' STANDING

The instructors and adviser of the student under consideraton.

THE COMMITTEE ON ATHLETICS

THE COMMITTEE ON AUTHORIZED EXCURSIONS

Frank B. Williams

President Wallace W. Atwood Dean Homer P. Little Registrar Carey E. Melville

President Wallace W. Atwood

Dean Homer P. Little

James A. Maxwell David Potter

President Wallace W. Atwood Dean Homer P. Little Charles F. Brooks COMMITTEE ON STUDENT FINANCE Dean Homer P. Little President Wallace W. Atwood ex officio Charles B. Randolph, Chairman James A. Maxwell Ernest R. Whitman Frank B. Williams COMMITTEE ON SOCIAL AFFAIRS President Wallace W. Atwood Dean Homer P. Little Leroy A. Ames, Chairman Charles B. Randolph William H. Warren COMMITTEE ON FRATERNITIES President Wallace W. Atwood Dean Homer P. Little Frank B. Williams, Chairman Arthur F. Lucas Dwight E. Lee COMMITTEE ON PUBLICATIONS President Wallace W. Atwood, ex officio Dean Homer P. Little Haven D. Brackett, Chairman Heinrich Bosshard Percy M. Roope

### THE UNIVERSITY

### THE LOCATION

Clark University is located in Worcester, Massachusetts, an industrial and educational center with a population of nearly two hundred thousand. It is distant about forty miles from Boston and from Providence, and about two hundred miles from New York City.

Situated at the eastern border of the Central Massachusetts upland at an altitude of nearly six hundred feet above sea level, excessive humidity is seldom experienced and the climate is bracing.

### GROUNDS AND BUILDINGS

The University Campus is a tract of about eight acres bounded by Main, Woodland, Maywood, and Downing Streets, about a mile and a quarter from the City Hall. Here the principal buildings are located. Besides this tract, the institution owns the athletic grounds between Maywood and Beaver Streets, where the tennis courts are located, the athletic field of about six acres at the corner of Park Avenue and Beaver Street, about five minutes' walk from the University, the land on the corner of Woodland and Charlotte Streets, where Estabrook Hall is located, the adjacent Fanning estate and other property opposite the campus on Woodland Street, the Hadwen Arboretum on Lovell Street, and several other dwellings occupied by members of the staff. The residences of the President and of the Dean of the College are on Woodland Street, opposite the Campus.

Jonas G. Clark Hall, completed in 1889, is a four-story granite and brick building, 204 feet by 114 feet, of fire-resisting construction containing about ninety rooms.

Science Hall, completed in 1889, is constructed of brick with brick partitions throughout. It has the form of a letter L with each wing about 135 feet in length. The wing adjacent to Woodland Street, containing about twenty-eight rooms on three floors, is occupied by the Department of Chemistry. The other wing,

containing about twenty-two rooms on four floors, is occupied by

the Department of Physics.

The Library Building, completed in 1903, is architecturally the most noteworthy of the University buildings. The design is a modern adaptation of the Gothic style. The exterior is of brick on a granite foundation. The interior is finished throughout in oak. The building, facing Main Street and extending back along Downing Street, is 78 feet by 168 feet and three stories in height.

The Geography Building, completed in 1910, is 56 feet wide and extends along Main Street for 111 feet. It is connected by corridors to the Library Building, which it matches in design.

Estabrook Hall, a dormitory for about fifty students, is the newest addition to the University buildings. This is an attractive brick building, 43 feet by 125 feet, and three stories in height, including the Dining Hall, built in 1908, on the ground floor. The dormitory and dining hall are both supplied with the most modern equipment throughout. The dining hall has accommodations for about two hundred.

### ORGANIZATION

The University includes:

THE UNDERGRADUATE DIVISION offering a general collegiate course leading to the degree of Bachelor of Arts.

THE GRADUATE DIVISION offering advanced instruction leading to the degrees of Master of Arts and Doctor of Philosophy.

THE GRADUATE SCHOOL OF GEOGRAPHY offering special training leading to higher degrees in Geography and related subjects.

THE SUMMER SCHOOL offering both undergraduate and graduate instruction with special reference to candidates for the degree of Bachelor of Education.

THE LIBRARY with its separate endowment, offering unusual opportunities for study and research.

Courses of Study are offered by thirteen departments:

- 1. Ancient Languages and Literatures
- 2. Biology
- 3. Chemistry

- 4. Economics and Sociology
- 5. English Language and Literature
- 6. Geography
- 7. Geology
- 8. German Language and Literature
- 9. History and International Relations
- 10. Mathematics
- 11. Physics
- 12. Psychology and Education
- 13. Romance Languages and Literatures

### THE ACADEMIC YEAR

The academic year begins on the fourth Thursday in September, and Commencement Day is the thirty-eighth Monday following (the second or third Monday in June). The first semester ends on the Saturday before the nineteenth Monday, and the second semester begins on the nineteenth Monday of the academic year. There are three recesses during the college year: Thanksgiving Day and the two days following: two weeks including Christmas and New Year's Day; and the week including the nineteenth of April. University exercises are suspended also on Columbus Day, Washington's Birthday, and Memorial Day, and during some of the morning hours on Founder's Day, in order to permit students to attend the commemoration exercises.

The Summer School begins on a Monday early in July and continues in session for six weeks.

Students are expected to be present on the first day of each term and to continue in attendance from day to day to the end of the term.

### **ADMISSION**

Three classes of students are admitted:

- 1. Undergraduates. For requirements see page 40.
- 2. Graduate students. For requirements see page 52.
- 3. Special students. (a) Mature persons, not candidates for a degree, who wish to take advantage of the opportunities for study afforded by the University, and who give satisfactory evidence of adequate preparation for the work which they wish to under-

take. (b) Students who are candidates for the degree of Bachelor of Education. For requirements see page 55 and 86.

Requests for information and for application forms should be addressed to the Registrar.

### REGISTRATION

The first day of the academic year and of the summer session are devoted to the registration of programs of study. Registration for the second semester is required not later than the tenth day (Thursday) before the beginning of the semester.

Failure to register at the time designated is penalized, in the case of undergraduates, by a fine of one dollar for each day's delay up to maximum of five dollars.

### TUITION AND FEES

The tuition in the Undergraduate and Graduate Divisions is \$200\* per year. Special Students and others carrying small programs are charged at the rate of \$40 for a course meeting one hour weekly through the year, and \$20 for each additional hour per week through the year. Tuition is payable in two equal installments. These installments are due at the beginning of each semester. If the tuition is not paid within ten days after it is due the enrollment of the student lapses. A student whose enrollment has lapsed for non-payment of tuition may be re-enrolled, with permission of the proper administrative officer, on payment of the overdue tuition with an additional fee of \$2.

Tuition in the Summer School is \$20 for a single course and \$35 for two or more courses. Tuition may be paid at any time before the opening of the Summer School, and must be paid by noon of the first Saturday of the term.

Tuition in special courses for teachers is \$8.00 for a course meeting one hour per week for one semester and \$15 for a course meeting two hours a week for one semester.

A matriculation fee of \$5 is required of all students formally enrolled in Clark University. This is paid but once, and permits a

<sup>\*</sup>A candidate for a degree who entered the University in September, 1926, or earlier, remains continuously in residence during the regular sessions from September to June and proceeds to the degree in the normal time, will be charged at the rate of \$150 per year for the time required to earn the degree.

student to return successive years, or after a period of absence, without any further charge for matriculation. This fee is paid also by students who register for the Summer School.

Students admitted to special courses for teachers (extension courses), to field trips conducted by the Summer School and to Home Study courses are not required to matriculate. Official statements of record are issued by the Registrar of the University to matriculated students only.

Laboratory fees are charged at the rate of \$5.00 each semester for undergraduate laboratory courses.

A deposit of \$10 for each course, to cover breakage, is required of students taking undergraduate laboratory work in Chemistry. Any balance remaining at the end of the year is returned on application, and if the deposit is not sufficient to cover breakage, any excess is collected by the Bursar.

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## ADDENDUM TO PAGE 28, CLARK UNIVERSITY CATALOGUE, FEBRUARY, 1929

By action of the Trustees undergraduate charges have been increased Five Dollars each semester, beginning September, 1929, for the support of "student activities".

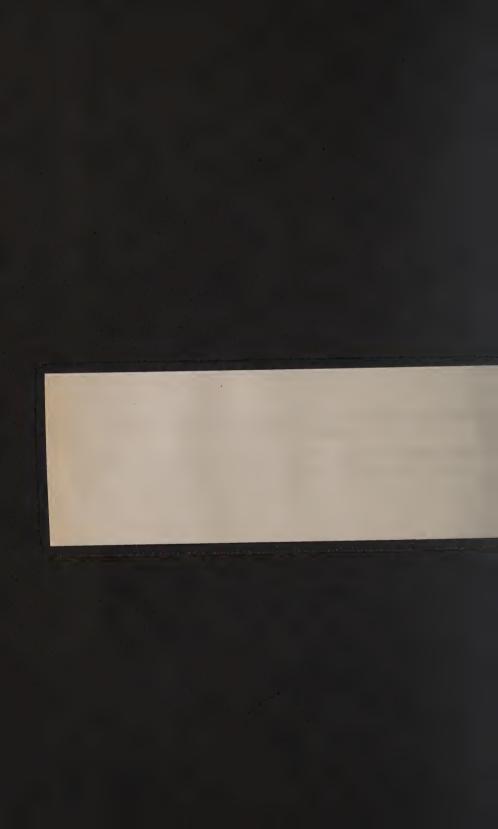
Diploma fees are charged according to the following schedule: \$5 for the Bachelor of Arts or the Bachelor of Education diploma. These fees are due before the delivery of the diploma.

\$10 for the Master of Arts diploma, due when applications for admission to candidacy are filed.

\$25 for the Doctor of Philosophy diploma, due when applications for admission to candidacy are filed.

### DINING HALL AND DORMITORY

Board at the Dining Hall is furnished at a reasonable rate which has varied from year to year. During the current year the charge has been \$7.50 per week.



tudent to return successive years, or after a period of absence, vithout any further charge for matriculation. This fee is paid lso by students who register for the Summer School.

Students admitted to special courses for teachers (extension ourses), to field trips conducted by the Summer School and to Home Study courses are not required to matriculate. Official tatements of record are issued by the Registrar of the University of matriculated students only.

Laboratory fees are charged at the rate of \$5.00 each semester or undergraduate laboratory courses.

A deposit of \$10 for each course, to cover breakage, is required f students taking undergraduate laboratory work in Chemistry. Any balance remaining at the end of the year is returned on pplication, and if the deposit is not sufficient to cover break-ge, any excess is collected by the Bursar.

A deposit of \$25 is required of each graduate student in the Department of Chemistry, at the beginning of the year. Ordinary upplies and materials are charged to the student's account at ost. Any balance remaining is refunded at the end of the year. Graduate students taking undergraduate courses pay the same

ees and deposits as undergraduates.

Laboratory fees and deposits for breakage are due at the time f registration for the courses.

Publication fees, \$10.00 for the Master of Arts thesis and \$15 or the Doctor of Philosophy dissertation are due when applications for admission to candidacy are filed.

Diploma fees are charged according to the following schedule: \$5 for the Bachelor of Arts or the Bachelor of Education diploma. These fees are due before the delivery of the

diploma.

\$10 for the Master of Arts diploma, due when applications for admission to candidacy are filed.

\$25 for the Doctor of Philosophy diploma, due when applications for admission to candidacy are filed.

### DINING HALL AND DORMITORY

Board at the Dining Hall is furnished at a reasonable rate which has varied from year to year. During the current year he charge has been \$7.50 per week.

Undergraduates who do not live in their own homes are required to board at the Dining Hall.

Estabrook Hall, (See cut and floor plan, pages 32 and 33) the undergraduate dormitory completed in 1924, provides accommodations for about fifty students at a cost of \$150 a year each for two students in a suite of two rooms, or \$115 each for two in one room. Dormitory room rent is payable either in advance or one-fifth at the beginning of each semester and one-tenth on the first day of November, December, January, March, April and May. In case of voluntary or involuntary withdrawal from the College, room rent is charged to the first of the calendar month following the date of withdrawal. Each student is required to deposit \$25 before occupying a room. This deposit is returned, less a charge for lights and any charges for damages to the room or its furnishings, when the key to the room is surrendered to the Bursar. A deposit of fifty cents is required from each student for a key to his room.

Freshmen not living in their own homes are required to room in Estabrook Hall. Rooms not required for Freshmen may be rented by upper classmen or by graduate students. Rooms are assigned to Freshmen in order of application, when the application is accompanied by a deposit of \$10. Students who indicate a desire to room together will be accommodated whenever possible.

The University also has dormitory accommodations for a small number of graduate students. Lodgings can be secured in private houses within convenient distance at a reasonable cost.

### OTHER EXPENSES

In addition to the fees and other charges enumerated above, students will find that the necessary expenses of living in Worcester are comparable with similar costs in any large city and that the total is largely dependent upon the individual's habits and tastes.

The cost of books varies with the programs of study. The University maintains a bookstore which is operated without profit in order to reduce the cost of text-books and supplies.

### FELLOWSHIPS, SCHOLARSHIPS AND LOANS

Fellowships and scholarships for graduate students are available as announced on page 52.

Undergraduate scholarships are available as announced on page 38.

Loans and other grants are also available from various special funds specifically designated for either graduate or undergraduate students and from the Sarah M. Thurber Loan Fund to both graduates and undergraduates.

### HEALTH AND PHYSICAL TRAINING

The Medical Director, Doctor Ralph W. Ellis, exercises general supervision over matters of health and hygiene in the University. For undergraduates a thorough medical examination is required at the beginning and end of each year. Three hours per week of physical training are required of all who are not excused for adequate reasons. Medical examinations and physical training are optional with graduate students.

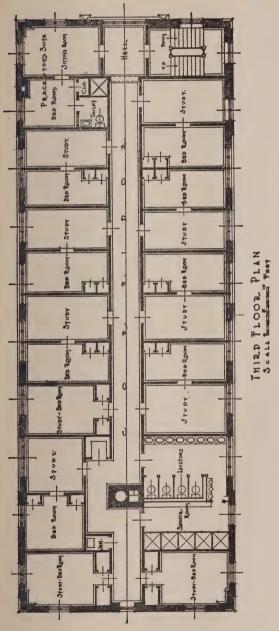
The Medical Director is available during the academic year for conferences and medical advice. It is intended that his services shall be primarily of a preventive nature. The University does not conduct an infirmary and does not undertake to care for cases of illness requiring medical attention or hospital accommodations, although it will co-operate in every possible way in meeting such emergencies.

The Director of Physical Education has supervision over all required physical training and other athletic activities. In the matter of intercollegiate contests he is assisted by the Committee on Athletics of the Faculty.

The University has two athletic grounds. The smaller one lies across Maywood Street from the campus and includes tennis courts and a cinder running track about an eighth of a mile in length. The larger athletic field, secured in 1924, is located at the corner of Beaver Street and Park Avenue, about five minutes' walk from the University.

The gymnasium is located on the ground floor of Jonas G. Clark Hall. Individual steel lockers and an ample number of shower baths are provided.





# DINING HALL AND DORMITORY, CLARK UNIVERSITY

This dormitory is primarily for Freshmen students. All Freshmen who are living away from home while attending the College and who are not excused by special action of the Collegiate Board are required to live here during their first year. The rent for the rooms has

been placed at a very modest figure, much less than rooms of similar equipment and attractiveness can be secured for in the neighborhood of the College. A proctor lives in the building and has general supervision over the life in the dormitory.

### THE LIBRARY

LOUIS N. WILSON, Librarian
EDITH M. BAKER, Assistant Librarian
HELEN J. ELLIOT, Cataloguer

### Assistants

ALICE M. BROWN ELEANOR N. MIDWOOD MARGARET A. HERRIDGE EDITH L. SAWYER

Student Assistants

CHESTER G. ELIASON

EDWIN N. JOHNSON

The Library under the terms of Mr. Clark's will received one quarter of his estate for the "support and maintenance of a University Library." Thus the Library is well endowed and is able to provide amply for the needs of all departments.

The Library is situated on the corner of Main and Downing Streets. A full description of the building and of the Proceedings at the Public Opening which was held January 14, 1904, will be found in the Publications of the Clark University Library for April, 1904 (Vol. 1, No. 3).

The Library contains over 130,000 bound volumes and pamphlets, and the reading room receives about 500 journals.

The books are grouped as follows:

A Works of General Reference L Biography

B Journals M Anthropogeography
C Mathematics N Education

CD Mathematics-Physics O General Science

Physics P History

DE Physical Chemistry R Political and Social Science E Chemistry Economics

Biology, Zoölogy, Botany, S English
Physiology, Neurology T Modern Languages

G Geography U Classics
H Pathology W Practical Arts
I Psychology X Library Science

J Philosophy Y Art

K Religious Psychology Z European War

Tuesday and Friday mornings, each week, all books recently added to the Library are placed upon a table in the reference sec-

tion, where they remain for three days. This affords the members of the University an opportunity to examine the new books in all departments before they are placed upon the shelves for circulation.

Particular attention is paid to the needs of students engaged in research work. The Library already possesses a good collection of complete sets of the best scientific periodicals. It makes liberal purchases for individual needs and supplements these by drawing upon the resources of the older and larger libraries through the inter-library loan system. The number of books added each year is about four thousand volumes.

The books in the Art Department are accessible on application to the Librarian, but, by the terms of the Founder's will, they cannot be taken from the building.

All the privileges of the Library are open to all members of the University.

The Library is open from 8 a. m. to 10 p. m. each week day (except on legal holidays), during term time and during the Summer School session.

### ART DEPARTMENT

In his last will and testament the Founder of the University bequeathed

"the sum of \$100,000, as an endowment fund for the Art Department of said University, and said sum is to be held and kept sacred and intact as a principal not to be used or expended under any conditions; but the income, interest or proceeds thereof shall be used only in putting and keeping said works of art or others given or obtained for said department in good condition and in taking care of them; and then if there is a surplus of the income of said fund, I will and direct that it be used in the purchase of additional works of art or of such matters as will add to the usefulness and efficiency of said Art Department."

Under these conditions a large room has been furnished and equipped on the upper floor of the Library Building. Upon the death of Mrs. Clark, those of the Founder's collection that were deemed most suitable for this purpose were arranged and displayed in this room, together with his most valuable books, which, by the conditions of the will, cannot be removed from the build-

ing. A complete catalogue of these books and paintings has been published in the Publications of the Library, Vol. 2, No. 1.

The Art Department is open daily (except Sundays and holidays) from 9 a. m. to 5 p. m.

Five portraits and two landscape paintings have been added to the collection:

1909. Portrait of the late Carroll D. Wright, president of Clark College from 1903 to 1909, by the late Frederick Vinton of Boston.

This painting was awarded the Temple Gold Medal at the 1909 Exhibition of the Pennsylvania Academy of Fine Arts.

1911. Portrait of G. Stanley Hall, president of Clark University from 1888 to 1920, by the late Frederick P. Vinton of Boston.

1913. Landscape painting, "Snowing," by Joseph H. Greenwood of Worcester.

1914. Portrait of Edmund C. Sanford, president of Clark College from 1909 to 1920, by Joseph De Camp of Boston.

1921. Portrait of Augustus George Bullock, member of the Board of Trustees from 1901 to 1926 and president of the Board from 1905 to 1919, by Leslie P. Thompson of Boston.

1925. Portrait of Wallace W. Atwood, president of Clark University since 1920, by John C. Johansen of New York.

1926. Landscape painting, "Sugar Loaf Mountain, Deerfield, Mass.," by Colin A. Scott. Dr. Scott was Fellow in Psychology at Clark, 1894-1896, and received the Ph.D. degree June 30, 1896.

To commemorate the twenty-fifth anniversary of the University the Board of Trustees, early in 1914, commissioned Mr. Victor D. Brenner of New York to prepare a medal to mark that event. The medal is made of bronze and is three inches in diameter. On the obverse side is delineated the head of President G. Stanley Hall, and on the reverse a beautiful allegorical group symbolizing the spirit of the University and the legend.

"Knowledge is proud that he has learned so much, Wisdom is humble that he knows no more."

Scale models of the buildings and the University grounds have been made by T. J. McAuliffe and Son of Worcester, under the direction of the architects, Messrs. Frost and Chamberlain.

Shortly before his death Dr. Sanford gave the Art Department a silver vase bearing an etching of Fuji-Yama and inscribed, "To Dr. E. C. Sanford from Nakanishi and Kakise, Tokio, 1921."

### THE UNDERGRADUATE DIVISION

(Clark College)

When the College was established in 1902, a three-year course was adopted as the normal one for the baccalaureate degree. This innovation was in part due to the emphasis placed upon a three-year course in the will of the founder, and in part the result of a conviction that properly prepared students could, under favorable conditions, secure in three years a training in no substantial degree inferior to that ordinarily obtained in a fouryear college course. Increasing pressure, on the one hand, for the admission of high school graduates who could not qualify for the three-year course and, on the other hand, for a larger development of extra-curricular activities, including athletics, has led to a modification of this plan. Beginning with the class which entered in September, 1922, a regular four-year course leading to the Bachelor of Arts degree has been offered. opportunity for completing the requirements for graduation in three years continues to be open to qualified students and to be emphasized in accordance with the traditional policy of the College and the intent of its founder.

The College has a competent faculty, large in proportion to the number of students, and is well equipped for the work which it undertakes. It especially commends itself to earnest young men who wish to economize in either time or money. In accordance with the expressed wish of the founder, the tuition has been kept as low as possible. A general and well-balanced undergraduate curriculum leading to the degree of Bachelor of Arts is offered. Distinctively vocational or professional work is not offered. Certain departments, particularly the Department of Chemistry, have, however, been able to give a training which has enabled students to take up professional employment immediately after graduation.

A complete statement in regard to fees and expenses will be found on pages 28 and 29.

### SCHOLARSHIPS AND STUDENT AID

The Jonas G. Clark Scholarships established by the Trustees in January, 1925, provide scholarships of the value of one hundred dollars each to fifty undergraduates. These scholarships replace the smaller number of Undergraduate Scholarships previously available. Twenty of these scholarships are reserved for applicants for admission to the Freshman Class who rank in the upper quarter of their graduating classes in preparatory schools, eight of them being for graduates of the Worcester High Schools. Of the remaining thirty scholarships, ten will be reserved for each of the three upper classes for students who rank in the upper quarter of each class.

THE SANFORD MEMORIAL SCHOLARSHIP FUND. The alumni of the university have raised four thousand dollars to found a scholarship fund in memory of former President Edmund C. Sanford, the income from which is to pay the full tuition of some undergraduate. Included in the fund, by vote of the class of 1918, is its class gift to the University. The first award of the scholarship will probably be made in 1930-31.

THE LIVERMORE AND AMBULANCE SCHOLARSHIP was endowed by citizens of Worcester in honor of Charles Randall Livermore, Clark College, '17, the first Clark man to fall in battle, and of his companions in the Clark Unit of Ambulance Drivers. A scholarship of fifty dollars or more is offered from the income of the fund, to be awarded on the basis of academic success, character and usefulness to the College. The scholarship is open to students in regular standing in any class of the College who are residents of Worcester County.

THE HENRY A. WILLIS FUND of \$5,000 provides an annual scholarship for students coming from Fitchburg and vicinity, but in the absence of a suitable recipient from this community other disposal may be made.

THE B'NAI BRITH SCHOLARSHIP is the income from a fund of \$2,000 provided by the Order of B'nai Brith, primarily but not exclusively for the aid of Jewish students.

THE CLARK UNIVERSITY FACULTY WOMEN'S CLUB is offering for the first time a \$200 scholarship to be given to the applicant

of good diamater reductaisting whose need for the indi

who ranks highest in intellectual and personal qualities. The club is assisted by Alumnae and wives of Alumni. Application should be made to Chairman Scholarship Committee, Clark University Faculty Women's Club.

Applications for undergraduate scholarships should be filed at an early date on blanks which may be secured at the general office. Awards are made by the Collegiate Board.

The Board expressly reserves the right to award fewer than the full number of scholarships in any year if fewer than the full number of worthy candidates apply or if for any other reason this may seem advisable.

Aid which is given in the form of scholarships is not regarded as a loan. If however, those who avail themselves of such aid are able to return the amount in later years, the sums, whatever they may be, will be put into the Alumni Loan Fund of the College.

### LOAN FUNDS

THE ALUMNI LOAN FUND. Grants from this fund are made on recommendation of the President or Dean of the College in amounts determined by the need of the applicant but seldom in excess of one hundred dollars per year to any single applicant.

THE ESTABROOK LOAN FUND. This is a revolving fund created by the generosity of the late Arthur F. Estabrook of the Board of Trustees and now amounting to a total of about four thousand two hundred and fifty dollars. The fund is administered by the Dean of the College.

The loans from these two funds are covered by endorsed notes payable at a fixed date and bear interest from date at the rate of six percent per year. Applications may be made at any time.

THE SARAH M. THURBER LOAN FUND. This fund has been established through the generosity of Dr. Charles H. Thurber, President of the Board of Trustees, as a memorial to his mother. The fund is administered by the President of the University. Loans may be made from the income of this fund to either undergraduate or graduate students. Such loans will bear interest at the rate of six percent per annum, and should be repaid as promptly as possible, so that other students may benefit from this foundation.

Other Funds. A special alumni loan fund has been contributed by L. Kelly Foster, C. B. L. Kelley, Isadore Lubin and H. M. Smith, and others. This fund amounts to about \$500. Mr. Kelley has continued to give financial assistance to one or more deserving students each year.

### **ADMISSION**

Inquiries regarding admission and requests for blank forms should be addressed to the Registrar.

It is the practice to regard every admission as an "admission on trial" to the actual work of the College. A student whose record fails to meet the expectations implied by his admission may be required to withdraw at any time.

Applications for admission should be made as early as is practicable. Official transcripts of preparatory school records and certificates of character should be sent directly to the College by the school officials who sign them.

Special students are admitted to the University under the conditions stated on page 27.

### Admission to the Freshman Class

A four-year high school course or its equivalent, including a total of 15 units of credit in acceptable subjects, is required for admission to the Freshman class. Two units are required in Mathematics (Algebra and Geometry). A single unit in a foreign language is not accepted. Commercial and industrial subjects will be credited to a total not exceeding three units. The term "unit" is understood to mean approximately one quarter of a pupil's normal program of work for the school year.

An applicant for admission to the freshman class should supply, on blanks furnished by the college:

- 1. A signed application for admission naming three competent references as to general character and ability. This application should be filed with the Registrar at the earliest practicable date.
- A complete statement of his preparatory school record. This should be mailed to the Registrar by the officer who signs it. (See statement below in regard to certificates).

In addition to the above, an applicant should supply records of any entrance examinations which he may have taken.

### CERTIFICATES

Applicants whose references are satisfactory and who present records from approved schools will be admitted (a) without conditions if they offer fifteen certified units of credit in acceptable subjects, or (b) with one or two conditions if they offer fourteen or thirteen certified units respectively in acceptable subjects.

Certificates are accepted from schools on the list of the New England College Entrance Certificate Boards. Schools not on this list may receive "specimen" certification privileges by applying to the Secretary of the Board, Dean Frank W. Nicolson, Wesleyan University, Middletown, Conn.

A certificate from a school not on the list approved by the Board is not valid for admission unless the school lies outside of the jurisdiction of the Board.

### ENTRANCE EXAMINATIONS

Applicants from approved schools who cannot present at least thirteen certified units, and applicants from schools which do not have the certificate privilege should arrange in consultation with the Registrar to take examinations offered by the College Entrance Examination Board in June. Information concerning these examinations may be obtained from school officers or by addressing the Board at 431 West 117th St., New York City. Applications for examinations must be received by the Board before the end of May.

Those who make a satisfactory record in a designated set of examinations may be admitted to the college with or without conditions. The College will determine in each case what constitutes a satisfactory record in examination.

A final opportunity for making up entrance deficiencies by examinations is offered at the college immediately before the opening of the academic year in September.\* These examinations are also provided by the College Entrance Examination Board, and are intended to be supplementary to those held in June. Admis-

<sup>\*</sup>In 1929 from September 16 to 20.

sion to them is by special permission in each case. A fee of \$2.00 is charged by the college for each examination.

### Admission with Conditions

Admission with conditions is essentially admission on trial. It is not intended that such admission shall involve the requirement of additional courses during the freshman year for students who are less well prepared than those admitted without conditions. All conditions will be terminated at the beginning of the sophomore year either by removal in the manner specified below or by additions to the requirements for graduation. Conditions may be in specified subjects or may be general, in the latter case indicating some deficiency in the high school course as a whole.

Conditions will be removed if at the end of the freshman year the conditioned students shall have met the normal scholarship requirements for regular standing, namely a rank above the lowest quarter in three-fifths of his courses and no failures. Conditions may also be removed by satisfactory records in College Entrance Board Examinations covering the conditioned subject in June or September following the freshman year.

Applications for examinations in September, for the removal of conditions, must be filed with the Registrar not later than the first of August preceding the date of the examinations. The fee of two dollars for each examination must be paid when applications are filed.

Each condition not removed at the beginning of the sophomore year will be replaced by an additional requirement for graduation amounting to three semester hours.

### Admission to Advanced Standing

A student who wishes to enter the College after previous study at another institution of college grade is required to submit a letter of honorable dismissal, a complete transcript of his record at the last institution attended and such other information as the Committee on Admissions may request. If he is admitted he will be provisionally assigned to the Freshman, Sophomore, Junior, or Senior class and will be permitted to register for such courses as he is prepared to undertake. He will not be given a final class

rating or a definite amount of credit for work done elsewhere until he has been in residence for at least one semester. After satisfying this requirement as to residence he will be given credit for the work done at any other institution to an amount depending in each case upon the time spent upon it, the grade received, and upon the record made here. Such credit is granted by the vote of the Collegiate Board upon the recommendation of the Registrar.

The Bachelor's degree will not be conferred upon a student who has not spent at least a year in residence here, and usually not unless the time in residence includes the two semesters immediately preceding the granting of the degree.

### FACULTY ADVISERS

When a student is accepted by the Committee on Admissions he is assigned to a member of the Faculty who will act as his adviser. The adviser will assist the student in making up his program of studies for registration and will be ready at all times to afford him help and counsel, either in regard to problems of the student's college life or other matters. The student should consult with his adviser as soon as possible in order to outline his program of studies before the opening of the college year. In all cases of action directly affecting a student the adviser is his representative before the Faculty and will present the student's views and desires.

### REGISTRATION

When a student is accepted for admission he is given a card authorizing him to matriculate. This card, when receipted by the Bursar as evidence of payment of the matriculation fee, is his authorization to register.

Registration days are the first day of the academic year and the tenth day (Thursday) before the beginning of the second semester. Failure to register on or before these days involves a fine of \$1.00 for each day's delay up to a maximum of \$5.00.

A student's record of attendance begins with the first day of the semester, and no credit for attendance is given until registration is completed. In cases of delayed registration unexcused absences are recorded for all scheduled meetings of courses unless excuses acceptable to the Collegiate Board are presented. During the first week of any semester changes of courses may be made for sufficient reason with the written approval of the student's adviser and the instructors concerned. After the first week of any semester no changes may be made except such as are authorized by special vote of the Faculty or of the Collegiate Board.

Freshmen may register for programs of either fifteen or eighteen hours of college work per week in the first semester. After the first semester of the freshman year programs of eighteen or more hours per week are restricted to students whose average rank in all courses is 50th among 100 or better, except in the case of seniors. A senior whose graduation at the end of the year depends upon the completion of a program of six courses may register for such a program in either semester if his average rank for the preceding semester is as high as 75th among 100.

The election of a *major* and *minor* is required as a part of registration at the beginning of a student's second year in College. This election when once recorded may be changed only at the beginning or end of a semester, and then only with the approval of the Dean. Although the *major* and *minor* are not officially regarded as fixed until the student's second year in College, he should plan his course from the beginning as definitely as possible with his probable choice in view.

### THE CURRICULUM

The curriculum is arranged upon a plan which permits considerable freedom of adjustment to individual differences of interest. Each student's program of studies contains two principal subjects (a major and a minor) together with required courses in English and certain subjects chosen in accordance with rules intended to insure a reasonable distribution of work among the various departments. A large part of each program is made up of courses chosen without restriction.

A major consists of at least twenty-four semester hours and a minor of at least eighteen semester hours made up of such courses as are specified in the announcements of the various departments.

In order to facilitate the statement of requirements, the departments of instruction are grouped in three divisions:

### Division A\*

Biology, Chemistry, Geology, Mathematics, Physics, also the following individual courses: Geography 12, Psychology 12.

### Division B

Economics and Sociology, Geography, History and International Relations, Psychology.

### DIVISION C

Ancient Languages, English, German, Romance Languages.

### STUDENT PROGRAMS

Regular students normally carry programs which yield a credit of fifteen or sixteen semester hours for each semester, in addition to the required work in Physical Training. These programs may include lectures, recitations, or work in laboratories. In general it is expected that all courses will require two hours of preparation for each lecture or recitation. Three hours are assumed for each laboratory period, which is counted as the equivalent of an hour of recitation and its two hours of preparation.

A student carrying the regular program should expect his college work to require from forty-five to fifty hours of his time per week, in addition to the work in Physical Training.

Candidates for the Bachelor's degree in less than four years will generally carry programs of from eighteen to twenty hours per week and should expect to spend practically their entire time on their college work.

Each student elects one of the thirteen departments in which he will complete a *major*, and a related department in which he will complete a *minor*. The choice of *major* and *minor* usually involves certain specific requirements in other subjects. For these and for statements as to what particular courses may be used for a *major* and a *minor* the announcements of the different departments should be consulted.

First year students must make up their programs entirely from courses designated as "Open to Freshmen." The program for the freshman year must include:

<sup>\*</sup>Courses in the history of the various sciences may not be counted in fulfillment of the requirement 2f, page 47.

- 1. English 11.
- 2. A course in Foreign Language.
- 3. A course in Division A.
- 4. A course in Division B.
- 5. An elective.

Second year students should, as a rule, complete the English requirement, continue work in Foreign Language, and complete the requirements in Division A by taking a course in a laboratory science. A course in Appreciation of the Fine Arts is a requirement for second year students unless they have completed this course with a satisfactory record in the first year.

Undergraduates, other than Freshmen, may enter any course listed "primarily for undergraduates," for which, in the judgment of the instructor in charge, they are prepared. Seniors and Juniors who have completed the published prerequisites are admitted, at the discretion of the instructor in charge, to courses listed "for graduate students and advanced undergraduates." Undergraduates are not admitted to courses "primarily for graduate students" except in rare cases, and then only by special vote of the Collegiate Board and of the Graduate Board.

### PHYSICAL TRAINING

Regular gymnasium exercise is required of all students (with certain exceptions) for the general promotion of their health and mental efficiency. The hours at which this work is given are set at times which avoid conflict with recitation hours.

# REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

- 1. A minimum period of study in residence of three academic years.
- 2. One hundred and twenty semester hours of credit with a satisfactory standing, in addition to the required work in physical training.

The 120 hours required for graduation must include:

- a. A major of not less than twenty-four semester hours.
- b. A minor of not less than eighteen semester hours.

c. A requirement depending on the choice of the *major* subject, six semester hours.

Those majoring in Division A must take Mathematics 10 or 11.

Those majoring in Division B must take either Greek, Latin, Mathematics or a third year college course in a modern foreign language, subject to the approval of the department in which the *major* lies.

Those majoring in Division C must take Greek or Latin in the Freshman year. This requirement is waived if two units of Greek or Latin are presented for admission.

Work taken in fulfillment of this requirement (c) may also be counted toward the fulfillment of requirement (e) or (f).

- d. *English*, twelve semester hours, including English 11 required in the first year, and six semester hours additional required before the end of the third year.
- e. Foreign Language, at least thirty semester hours including credits accepted for admission. Foreign language accepted for admission will be credited towards the fulfillment of this requirement on the basis of six semester hours for two units of preparatory work in one language, twelve semester hours for three units in one language and eighteen semester hours for four units.

One foreign language course of at least second year college grade must be taken in college.

The thirty semester hours required may be divided between any two languages or among any three, but not less than six semester hours will be accepted in any one language and at least eighteen semester hours are required in one language.

f. Division A, twelve semester hours for students whose High school course included two or three units of Science in addition to Mathematics. For students who presented only a single unit of Science, this requirement is eighteen hours. For students who presented four units of Science, the requirement is reduced to six semester hours.

This requirement if more than six hours must be divided between at least two departments, and six semester hours of it must be in some one laboratory course in Biology, Chemistry, Geology, or Physics.

g. Division B, twelve semester hours for students whose High School course included two or three units of History or related subjects. For students whose high school course included only a single unit in this field, the requirement is eighteen semester hours. For students whose high school course included four units in this field, the requirement is reduced to six semester hours.

This requirement if more than six hours must be divided between at least two departments with not less than six semester hours in any department.

- h. Appreciation of the Fine Arts, a semester course, three hours per week, required before the end of the second year.
- 3. Physical Training, three hours per week through the course except during the second semester of the senior year. Any student may be excused from this requirement for adequate reasons.

Students who satisfy all of the foregoing requirements will be recommended for the degree of Bachelor of Arts unless in the judgment of the Faculty there is cause for withholding this recommendation.

### GRADING AND SCHOLARSHIP

A student's scholarship record is determined by his relative standing in each of his courses.

College regulations concerning scholarship are based on the fundamental assumption that in any large class the major portion will do fairly satisfactory work and that the remainder will be about equally divided between those who clearly rank above and those who as clearly rank below the group just mentioned.

In recognition of the superior quality of work necessary to insure a high rank, additional credit is given to students who are ranked in the upper quarter in any three-hour course. This extra

credit amounts to 0.5 hour for ranks from 1 to 5, 0.3 hour for ranks from 6 to 15 and 0.2 hour for ranks from 16 to 25.

Courses in which a student is ranked in the lowest quarter of the class may be counted toward the A.B. degree only when combined with courses in which the rank is higher, in the proportion of 2 hours of credit in the lowest quarter to 3 hours of credit ranked above the lowest quarter.

## CLASSIFICATION OF STUDENTS

Students are classified as Freshmen, Sophomores, Juniors and Seniors, on the following basis:

A student who, at the beginning of any academic year, has credit of less than 15 semester hours, is classified as a Freshman for that year.

A student, who, at the beginning of any academic year, has credit of 15 hours or more, but less than 48 hours, is classified as a Sophomore for that year.

A student who, at the beginning of any academic year, has credit of 48 hours or more, but less than 84 hours, is classified as a Junior for that year.

A student who, at the beginning of any academic year, has credit of 84 hours or more, is classified as a Senior for that year.

A student who has announced his intention of becoming a candidate for the degree of Bachelor of Arts in three years and who, at the beginning of his third year has completed eighty semester hours or more of credit, is classified as a Senior for that year.

Any student who, at the beginning of the second semester, is clearly in a position to complete the requirements for the degree before the beginning of the next academic year, is classified as a Senior for the second semester.

#### HONORS

"First Honors" and "Second Honors" are awarded annually to those members of each class who have, in the judgment of the Faculty, distinguished themselves by their scholarship during the year.

The Bachelor's degree is awarded "With Honor," "With High

Honor," and "With Highest Honor" to those members of each graduating class who have made the most creditable records.

In 1914 the Clark Scholarship Society was organized. The society is similar in aims to the Society of Phi Beta Kappa. Its object is, "to maintain a high and broad conception of scholarship; to encourage devotion to scholarship, so conceived; to promote a close relation for mutual benefit between the undergraduate members and the faculty members of the Society." Membership in the Society is open to members of the faculty. New student members are normally elected at the end of each year from among the men of high standing in the Junior Class. The Faculty makes nominations and the undergraduate members of the Society elect from the men so nominated. Additional nominations are made at the middle and end of the senior year.

### STUDENT LIFE

It has always been the policy of the University to give to its students the greatest possible individual liberty of action and to adopt few rules of conduct.

It is assumed that each student will conform to the recognized standards of morality, good order, and gentlemanly conduct, that he will not absent himself unnecessarily from University exercises at which he is due, and that he will give his serious and constant attention to his work as a student.

While encouraging the fullest possible measure of student self-government, the College recognizes the fact that the individuals and groups among the undergraduates require a reasonable amount of oversight in their various undertakings.

Undergraduate organizations are under such control as will insure proper caution and recognition of responsibility in business dealings.

Participation in extra curricular activities is denied to those students only whose scholarship record is such as to indicate that further encroachment upon their time and attention may interfere with the completion of their course. In accordance with this principle, a student is "ineligible" for the following half semester if at any report period

- (a) he fails more than one course.
- (b) he fails one course and does not secure ranks above the lower quarter of the class in two subjects.
- (c) he passes all courses, and does not secure a rank above the lowest quarter of the class in at least one subject.

The general supervision of intercollegiate athletics is committed to an Athletic Board consisting of the Director of Physical Training, the Committee on Athletics of the Collegiate Board, two alumni elected by the Alumni Association, and nine student members. The actions of this Athletic Board are subject to review and veto by the Committee on Athletics.

Two formal dances, the "Junior-Freshman Prom" in the winter, and the "Senior Prom" at Commencement time in addition to informal dances, "Bohemians," held about once in six weeks, give opportunity for relaxation and the meeting of students and faculty on a basis of general sociability. Additional opportunities of this sort are provided by the various clubs in which both students and faculty participate.

Student activities include a Glee Club and Orchestra which give a series of concerts in Worcester and elsewhere during the winter; a Debating Society whose members have made an enviable record for the University in intercollegiate debates; the Gryphon, a senior honor society, and many other organizations.

The Dramatic Association is a very active student organization which presents a number of plays each year under the direction of Professor L. H. Dodd of the Department of English.

On Sub-Freshman Day, in the spring, those who have some expectation of entering the College in September are guests of the University for the purpose of establishing mutual acquaintanceship.

THE CLARK MONTHLY, a review of college life and letters, was established in 1911.

THE CLARK News, a weekly undergraduate publication has been published since 1926-27.

## THE GRADUATE DIVISION

## GENERAL INFORMATION

Admission to the Graduate Division is open to properly qualified persons, both men and women.

Instruction and opportunities for original research leading to the degree of Master of Arts and Doctor of Philosophy are offered by the following departments:

Economics and Sociology

Geography

History and International Relations

Psychology

Work leading to the degree of Master of Arts only is offered by the departments of Chemistry and Physics.

The other departments offer courses of an advanced nature which, with the consent of the Graduate Board, may be included in the programs of graduate students, but are not prepared at present to offer complete programs leading to the higher degrees.

A complete statement regarding tuition and expenses will be found on pages 28 and 30.

Fellowship stipends for graduate students are provided annually from the income of the George F. Hoar Fund of one hundred thousand dollars, the gift of Andrew Carnegie. Other financial assistance is made possible by University grants and by various bequests.

## SCHOLARSHIPS AND FELLOWSHIPS

The University awards annually a number of scholarships yielding tuition and in some cases an additional stipend up to \$200 (see page 55), and fellowships yielding tuition and additional stipends up to \$800 (see page 39).

The American Antiquarian Society Fellowship in American History, having a value of \$300 in addition to the remission of tuition, has been established by members of the American Antiquarian Society. This fellowship will be awarded to a student whose major is in American History.

#### STUDENT AID

Student aid is available from the following funds, with the restrictions noted.

A CITIZEN'S FUND has been established by a citizen of Worcester in the sum of five thousand dollars, the income of which is to be used for the aid of "some one or more worthy native born citizens of the City of Worcester who may desire to avail themselves of the advantages of the institution." The benefits of this fund are available to graduate students only.

THE JOHN WHITE FIELD FUND, the income of which is "to provide for the minor needs of a Scholar or Fellow," has been established by Mrs. Eliza W. Field. The fund amounts to five hundred dollars.

The following regulations apply to the award of the income of the Field Fund:

- 1. Regard is had to the intellectual ability of the candidate as well as to the need of pecuniary assistance.
- 2. Only candidates who have spent three months in graduate work at the University are considered.
- 3. The head of each department will consider and report to the Faculty desirable cases in his department.
- 4. Applications are received not later than January 30, and the awards made as soon as possible after the beginning of the second semester.

THE ELIZA D. DODGE FUND is a sum of one thousand dollars the income only of which is to be expended to aid graduate students of limited means engaged in research work.

THE SARAH M. THURBER FUND. This fund has been established through the generosity of Dr. Charles H. Thurber, President of the Board of Trustees, as a memorial to his mother. The fund is administered by the President of the University. Loans may be made from the income of the fund to either undergraduate students or graduate students. Such loans will bear interest at the rate of six per cent per annum, and should be repaid as promptly as possible, so that other students may benefit from this foundation.

## LIBRARY FACILITIES

In addition to the library facilities provided by the University (see pages 34 to 36) students may avail themselves of the privileges of several other excellent libraries in the city. The Worcester Public Library contains some 237,000 volumes and makes accessible to the public about 600 newspapers and magazines. The library of the American Antiquarian Society, housed in the national headquarters of the society in Worcester, contains about 136,000 volumes and some 202,000 pamphlets. The library of the Worcester District Medical Society is also at the disposal of members of the University.

On the following pages are printed the rules of the Graduate Board governing admission, scholarships and fellowships, candidacy, theses, examinations, and degrees for graduate students in Clark University.

## ADMISSION TO THE GRADUATE SCHOOL

Eligibility. Admission is granted only by the Graduate Board on recommendation of a department. A graduate of more than average ability from a college or university that was on the approved list of the Association of American Universities at the time his bachelor's degree was obtained is eligible for admission as a regular graduate student. A graduate of superior attainments from a four-year college not on the list, is normally eligible for admission only as a special graduate student.

Making application. A prospective applicant should communicate with the department in which he expects to do his major work, to learn whether his preparation is satisfactory, and whether he is likely to obtain the department's endorsement of his application. The application should be made on a blank form which may be had from the Registrar or Secretary. This application, together with official certificates of previous undergraduate and graduate work, and if possible, of the applicant's rating in a standard intelligence test, should be filed with the Secretary of the Graduate Board. Any other information, including published or unpublished theses or other writings of the applicant, that would be helpful in showing the Board the applicant's qualification should be sent.

Admission. In granting admission, with the advice of the department the Graduate Board may prescribe a minimum period of residence never less than one year, and other definite requirements, including courses in particular subjects, as prerequisites for a graduate degree. Admission to the Graduate School does not in any way imply admission to candidacy for a degree. Admission to the Graduate School is granted for entry only at the specified time, and lapses if the student fails to enter at that time. If, after an applicant has entered as a regular student, his period of graduate study is broken by more than a year, he must make formal application for re-instatement. A special graduate student is admitted only for a specified period, not exceeding one academic year.

Admission of a special graduate student to regular graduate standing. After a semester or its equivalent of residence and upon recommendation of his major department, a special graduate student may be admitted by the Board to regular graduate standing.

Undergraduates and non-graduate special students in graduate courses. Admission of other than regular or special graduate students to a course "Primarily for Graduate Students" may be granted by the Graduate Board only on formal recommendation in each person's case by the department in which the course is offered.

## SCHOLARSHIPS AND FELLOWSHIPS

### GENERAL REGULATIONS

- 1. Scholarships and fellowships (except Honorary appointments) are for prospective candidates, respectively, for the degree of Master of Arts and of Doctor of Philosophy at this University.
- 2. All applications for scholarships and fellowships shall be filed by the applicant's major department with the Secretary of the Graduate Board on a form approved by the Board. Each application must carry the written explanatory, favorable or unfavorable, recommendation of the department and must be accompanied by supporting data. Applications when properly endorsed, as provided above, will be considered by the Committee on Credentials, which will report to the Graduate Board the names

of all applicants together with the recommendations of the Committee. The Secretary will notify applicants of the action of the Board.

- 3. An appointment will become effective when an acceptance in writing is filed with the Secretary of the Graduate Board within 15 days of the date of notification.
- 4. For most favorable consideration applications for appointments for the succeeding academic year should be in the hands of the Secretary by March 1st.
- 5. Scholarships or fellowships are not transferable from one department to another except with the approval of the Graduate Board.
- 6. A scholar or fellow shall not engage during the term of appointment in any occupation that may interfere with his duties as a full-time graduate student unless he obtains permission from the Graduate Board to do so.

## SCHOLARSHIPS

Scholarships may be awarded to students of high rank who may be expected to fulfill the requirements for the Master's degree in not more than one year of residence. These scholarships are valued at \$100 and \$400. This is equivalent to half or full tuition with, in some cases, an additional stipend of \$50 to \$200.

## FELLOWSHIPS

Fellowships valued at \$200 to \$600, which are equivalent to tuition alone or to tuition and an additional stipend of from \$50 to \$400, may be awarded to competent full-time, regular graduate students who have completed an amount of graduate work equivalent to the requirements for the M.A. degree. Fellowships valued at \$200 to \$1,000, equivalent to tuition alone or to tuition and an additional stipend of \$50 to \$800, may be awarded to competent graduate students who give promise of completing their work for the degree of Doctor of Philosophy by the end of the academic year for which the appointments are made.

Some of these fellowships will be designated as research fellowships or teaching fellowships, with the consent of the applicant and on the recommendation of the department, in cases where

research or teaching assistance in the department is to be a duty of the fellow. Where the research or teaching duties in such fellowship or in an assistantship would prevent a scholar or fellow from carrying a full program of studies during the academic year, he may nevertheless qualify for full-time credit for the year through an adequate summer program of research or reading directed by the major department and approved by the Graduate Board.

## Honorary Fellowships

Distinguished visitors may be appointed Honorary Fellows for specified periods at the discretion of the Graduate Board. Such appointments entitle their holders to all university privileges and carry freedom from tuition charges, but no additional stipends are given.

#### RULES AND REGULATIONS

## PROGRAMS OF STUDY

Programs of study of all students in the Graduate School, approved by departmental staffs, must be submitted to the Secretary of the Graduate Board by October 1 and February 10 each year. The Secretary shall scrutinize these programs and report any irregularities to the department concerned or to the Board.

## LANGUAGE REQUIREMENTS

Requirement in English. A student who wishes to become a candidate for a higher degree during his first year of residence may be required to come before the Committee on Language Examinations before admission to candidacy, for a test of the adequacy of his knowledge of English in respect to speaking, reading and writing.

A candidate for a graduate degree after more than one year of graduate study must satisfy his major department in respect to his knowledge of English.

Foreign Languages. A prospective candidate for the Ph.D. degree is advised to prepare himself early for the oral examinations in reading modern languages. French and German are required except in cases where the Graduate Board may authorize

the substitution of another language for one of these. A student must present himself for these examinations not later than Feb. 1 of his first year of residence at Clark beyond the M.A. degree. When he is ready for either or both he is to notify the Secretary of the Graduate Board, who will arrange for the examination to be held within two weeks if possible. These examinations are conducted by a committee composed of a representative of one of the modern language departments, and a representative of the student's major department. The committee shall report the results of the examination to the Secretary of the Board. Other additional language requirements may be imposed by the student's major department.

## RESIDENCE

A regular academic year of full-time study or its specified equivalent in residence at Clark University is a prerequisite for any degree. Only the following is recognized as equivalent to a regular academic year: one full semester of the regular academic year and the equivalent of 18 other weeks on a full-time program of graduate work approved by the Graduate Board. Residence work is broadly defined as work done under the immediate personal supervision of at least one member of the university faculty. A field trip led by a member of the faculty is considered as providing an opportunity for work in residence.

## THE DEGREE OF MASTER OF ARTS

Admission to Candidacy. Regular students who have been admitted to the Graduate School without condition, or others who have met any special requirements imposed by the Graduate Board, may, when they have demonstrated their ability to do satisfactory work in the University, be accepted, by the Graduate Board, as candidates for the degree of Master of Arts. An application for admission to candidacy for the Master's degree will be considered by the Graduate Board when the student has:

- 1. Completed one semester of full-time graduate work or its equivalent in residence at this university.
- 2. Paid the diploma and publication fees (\$10.00 and \$10.00), and
- 3. Obtained the written endorsement of his major department.

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Applications should be filed with the Secretary of the Graduate Board not later than the first week of the last full semester which the student expects to spend in residence as a candidate for the degree. Unless extended by action of the Graduate Board, candidacy for the Master of Arts degree lapses at the end of three years. When candidacy expires without the degree having been awarded, the diploma and publication fees, less any expenses incurred, will be returned.

Course requirements. In order to insure that the student may obtain the necessary training, a minimum course credit of 18 semester hours in addition to his research work is required. The subject-distribution of the courses of each candidate must have the approval of the candidate's major department.

Examinations. The candidate must make a satisfactory record is such written examinations as may be required by the major department, and a final oral examination of approximately one hour's duration by a committee of three or more, two of whom shall be members of the Graduate Board. The major department shall make a written report to the Secretary of the Graduate Board, not later than 9 A. M. of the Friday preceding Commencement, stating the ground on which the candidate is recommended for the M.A. degree.

Thesis. The candidate must demonstrate that he has a comprehensive knowledge of his field of study and is capable of carrying on, under direction, a satisfactory investigation in that field. He must submit to his major department, by May 15 of the year in which the degree is to be conferred, a thesis on an approved topic and two copies of an approved abstract of it. The thesis shall be in a prescribed form and shall bear upon the title page the following statement.

"A thesis submitted to the Faculty of Clark University, Worcester, Massachusetts, in partial fulfillment of the requirements for the degree of Master of Arts in the Department of——and accepted on the recommendation of

(Name of Chief Instructor)"

The abstract should not exceed 600 words in length and should bear the written statement.

"Abstract Approved for Publication"

(Name of Chief Instructor)"

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The thesis and two copies of the abstract shall be delivered to the Secretary of the Graduate Board not later than 9 A. M. of the Friday preceding Commencement.

Additional copies of the thesis or abstract may be required by

the major department.

## THE DEGREE OF DOCTOR OF PHILOSOPHY

Course of Study. Only such candidates as give evidence of general proficiency, power of investigation and high attainments in the special field in which their major subjects lie will be encouraged to proceed to the degree of Doctor of Philosophy.

A graduate student who expects to proceed to the Doctor's degree shall select a major subject of study, and at least one minor subject with the approval of the department in which the major subject lies.

Admission to candidacy. An application for admission to candidacy for the Ph.D. degree will be considered by the Graduate Board when the applicant has:

- 1. Completed two full academic years of graduate work or its equivalent;
- 2. Passed examinations in at least two foreign languages: French and German are required except in cases where the Graduate Board may authorize the substitution of another language for one of these.
- 3. Passed a preliminary examination in his major and minor fields of study.
- 4. Paid the diploma and publication fees (\$25.00 and \$15.00);
- 5. Filed with his major department an application for admission to candidacy, stating the subject of his dissertation, and
- 6. Obtained the endorsement of the application from his major department.

Admission to candidacy for the Ph.D. degree shall hold good only for three years from the date of the vote granting admission of candidacy. When candidacy expires without the degree having been awarded, the diploma and publication fees, less any expenses incurred, will be returned. Applications for admission

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Clark Aniversity Worcester, Massachusetts Application for Candidacy

For the Degree of Doctor of Philosophy

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Date

Academic history and degrees.....

to candidacy must be filed not later than November first, in any academic year, by students who hope to receive the degree at the end of that academic year.

Dissertation.

For the degree of Doctor of Philosophy an indispensable requirement is a dissertation upon an approved subject, to which it must be an original contribution of value.

Not later than May 1, the dissertation, with an abstract not exceeding 1,200 words in length, must be presented to the instructor under whose direction it is written. The dissertation shall contain a title page with the following statement.

"A dissertation submitted to the Faculty of Clark University, Worcester, Massachusetts, in partial fulfillment of the requirements for the degree of Doctor of Philosophy in the Department of ———— and accepted on the recommendation of

(Name of Chief Instructor)"

The dissertation and abstract must be accepted by the chief instructor before the final examination may be held. In every case the dissertation shall be laid before the examining committee at the time of examination, with the comments of the chief instructor and other readers.

The complete copy and two copies of the abstract of the dissertation shall be delivered by the department to the Secretary of the Graduate Board not later than three days before Commencement. The dissertation and one copy of the abstract will be deposited in the Library, where they shall remain permanently, not subject to withdrawal.

If and when a dissertation is published five of the printed copies should be presented to the Clark Library: four copies to be retained by the Library and the other to be presented to the Library of Congress for their annual list of American doctoral dissertations printed.

At the final examination the student will be expected to defend his dissertation and, at the discretion of the examining committee, he may be questioned over the entire field of his study. The final examination will be at least a two-hour oral examination. Additional written examinations may be given at the discretion of the departments concerned. The oral examination will

Me abstract must bear the molorsement in the form: -. be held by a committee of at least four members, including: the chairman and one other representative of the department in which the candidate has done his major work, one or more representatives of the department or departments in which the candidate has elected his minor subjects, a member of the Graduate Board under whom the candidate has done no work, and such other members of the Graduate Board as care to attend.

The President of the University is authorized to invite any person from within or without the University to be present and assist in the examination. The committee shall in each case appoint a clerk who shall report the results of the examination to the Secretary of the Graduate Board.

The Secretary of the Graduate Board shall prepare and publish a schedule of examinations and the examining committees for the degree of Doctor of Philosophy at least one week before the beginning of such examinations.

Each department shall render final reports in writing on all candidates for the degree of Doctor of Philosophy not later than 9 A. M. of the Friday preceding commencement.

# THE GRADUATE SCHOOL OF GEOGRAPHY

Work in Geography is carried on by the Graduate School of Geography which is organized with a faculty of specialists in the various branches of the subject. The School occupies a well equipped building, including lecture rooms, offices and work rooms, and is directly connected with the University Library.

Degrees in Geography are granted by the University on the same terms as apply to degrees in other fields of study.

#### STAFF

Wallace W. Atwood, Ph.D., Professor of Physical and Regional Geography and Director of the Graduate School of Geography. Ellen C. Semple, LL.D., Professor of Anthropogeography.

CHARLES F. Brooks, Ph.D., Professor of Meterology and Climatology.

Douglas C. Ridgley, Ph.D., Professor of Geography in Education, Director of Home Study and of the Summer School.

CLARENCE F. Jones, Ph.D., Professor of Economic Geography. W. Elmer Ekblaw, Ph.D., Professor of Geography, Assistant Editor, *Economic Geography*.

CURTIS F. MARBUT, PH.D., Special Lecturer on Soils.

S. VAN VALKENBURG, Ph.D., Assistant Professor of Geography. Guy H. Burnham, A.M., Cartographer.

STUDENT LABORATORY AND RESEARCH ASSISTANTS, 1928-29

CARLETON P. BARNES, A.M., Soils and Plant Geography.

MEREDITH F. BURRILL, A.M., Physiography.

FLOYD F. CUNNINGHAM, A.M., Plant Geography, Climatology.

CHARLES GOOZE, A.M., South America.

CLARENCE E. KOEPPE, A.M., Climatology.

JOHN L. PAGE, A.M., Climatology.

## OTHER MEMBERS OF THE UNIVERSITY STAFF OFFERING CLOSELY RELATED WORK

George H. Blakeslee, Ph.D., Professor of History and International Relations.

ALFRED L. P. DENNIS, Ph.D., Professor of Modern History.

J. B. Hedges, Ph.D., Professor of American History.

HOMER P. LITTLE, Ph.D., Professor of Geology.

Samuel J. Brandenburg, Ph.D., Professor of Economics and Sociology.

James Ackley Maxwell, Ph.D., Associate Professor in Economics.

ROBERT H. GODDARD, Ph.D., Professor of Physics.

Vernon A. Jones, Ph.D., Associate Professor of Educational Psychology.

ARTHUR F. LUCAS, Ph. D., Assistant Professor of Economics and Sociology.

Dudley W. Willard, Ph.D., Assistant Professor of Sociology. David Potter, M.Sc., Assistant Professor of Biology.

#### GENERAL STATEMENT

During the last few years the American people have been awakened, in a remarkable way, to an interest in Geography. Since the period of isolation in national development is passed, they have come to realize almost suddenly, that the United States of America is one of the leading nations of the world and vitally interested in foreign countries and their problems.

This awakening, and the consequent broadening of our horizon, have forced us to recognize that we have neglected in this country the scientific study of Geography. Many of the universities and colleges of this country are now calling for trained geographers. Commissioners of education, normal schools, and high schools are looking for men and women who can serve as supervisors or as special teachers in Geography. The large financial houses are endeavoring to train men in commercial Geography in their own schools. The Departments of the Government are now using trained geographers, and the Civil Service Commission has recently recognized that no one should enter consular or diplomatic service

who has not been trained in the geography of this country and the world. The intelligent reading of current literature is demanding an increasing knowledge of the peoples and of the conditions in distant lands.

The Graduate School of Geography gives opportunity to properly qualified students to secure advanced training in Geography. The staff is composed of specialists in the various fields of Geography. They must of necessity spend a portion of their time in travel and in field studies, but while in residence, they offer regular courses of instruction and direct advanced students in research work. It is not the intention to offer all courses of instruction each year; many of them are given once in two years. Abundant opportunities for instruction are provided, but graduate students are advised not to burden themselves by attending too many lecture courses. They must depend very largely for their growth upon their individual efforts in research, under the direction of members of the staff. The map collection and the Library offer them unusual facilities for research work in residence, but it is hoped that all graduate students, before completing their university work, may undertake field studies.

Advanced studies in History, Economics, and Sociology, as well as a reading knowledge of the modern languages are important to all students of Geography, and the attention of such students is called to the announcements in those departments.

The Graduate School of Geography aims to promote, in every way possible, productive scholarship, and to train those who wish to enter the profession to become leaders in their chosen fields of work.

The publication of the *Economic Geography*, issued quarterly, was begun in 1925.

A complete statement regarding tuition and expenses, Fellowships and Scholarships, and general conditions of work will be found on pages 28 and 52.

Undergraduates planning to go on into graduate work in Geography are urged to consult the Geography Staff early in their undergraduate course, so that such fundamentals as Physics, Chemistry, English, German, French, Economics and History will not be neglected.

## GEOGRAPHY FOR GRADUATES

The outline below indicates the broad opportunities for professional training in Geography offered at Clark.

## Courses in Geography and Related Fields For Graduate Students

Subject	Course Number First Year (As of 1929-30)	Sem. hrs. Course number	econd Year As of 1930-31)	Sem. hrs. Course	rd Year	Sem. hrs.
Sub	Cours Numb First (As		Sec (As		Third	
General	30 Thesis Seminar 300 General Seminar	(4)30 (2)300	Thesis Seminar General Seminar	(4) 30 (2) 300	Thesis Seminar General Semina	(4) ar (2)
Physiography	Geol. 12 Gen'l Geolog 31a Princ. of Physiog. 319b World	#(2)310	Research North America	310	Research	
Meterology and Climatology	12 Weather and Clim 22 Meterology 221 Passing Weather Phys. 29 Phys. of Air 32a Principles 329b World	#(4) (2) (2) #(2) 320	Research North America	320	Research	
Soils	[Some College Chemist	ry] 33b	Soil Geography	(1) 330	Research	
Plant Geography	Biol. 24a Taxonomy a Ecology of Plants 34a Princ. of Plant G 349 World	(3) (2)340	Research North America	340	Research	
Agricultural Geography and Economics	15a Elements 35a Physical Bases 359b Ag. Reg. of World		Research 2 Land Economics North America	350 (3) (2)	Research	
Industrial	16b Elements	1 1	4 Ec. Hist. US. an	d		
and Commercial Geography and Economics	36a Industrial Geog. 369b Geog. Aspects World Trade	Ec.16 362b #(2)	Eu. Research bb Statistics Geog, Aspects U.S. Foreign Trad 31 Int'l. Ec. Pols.	(16) (3) of e(2) (4)	Research	
Anthropo- geography	[Some College History] Hist, 211a Hist'l G. U. 37a Princ, of Anthr. (375a Europe	S. (3) G. (3)370a (2)376a 378a	Research Mediterranean Eastern Asia 25a Brit, India		Research Hist. of Geog. ory	The- (1)
Regional and Internat'l Relations	181b North America 185b Europe 383a Caribbean America 384b South America 388 Far East (lectures	#(3)380	27 Latin America	(2) (6) 380	Research	
Methods	Hist. 22 Pac. and Far 1 290a Cartog. & Graphic 39 Field Geography 392 Field Methods		Geog. in Education Research in G. in Field Studies		Field Studies	(3)
Oceanography Urban Geography Sepcial Regions Exploration	Special lectures or	discussions	from time to time			

Note: Starred (\*) courses may be anticipated in whole, and those otherwise marked (#) in part, on the basis of college work.

## GEOGRAPHY COURSES FOR COLLEGE STUDENTS

For a major in Geography the following sequence of courses through the four years is recommended:

## First year:

Fundamentals of Geography (Geog. 10a) First semester. Geography of North America (Geog. 181b), or Geography of Europe (Geog. 184b) Second semester.

## Second and Third years:

Weather and Climate (Geog. 12) Through the year. General Geology (Geol. 12) Through the year.

## Third or Fourth years:

Economic Geography, Agricultural (Geog. 15a) First semester. Economic Geography, Industrial (Geog. 16b) Second semester.

The Geography of North America and of Europe are given alternate years, Europe to come in 1929-30, and North America, 1930-31. So also are the Weather and Climate and Economic Geography courses, Economic Geography to be offered in 1929-30, and Weather and Climate in 1930-31. All other courses are given every year.

For a minor in Geography, the Fundamental and either North America or Europe are recommended for the first year, Weather and Climate or General Geology for the second, and Economic Geography for the third.

Additional courses recommended for majors or minors in Geography are as follows:

## Freshman year:

General Physics (Physics 11) Through the year.

## Sophomore year:

Geography of North America or of Europe (whichever is offered that year) the second semester.

## Sophomore or Junior years:

Principles of Economics (Ec. 11) Through the year.

A Survey of International Relations (Hist. 18) Through the year.

## Senior year:

The Historical Geography of the United States (Hist. 211a) First semester.

Geography in Education (Geog. 29b) Second semester (For one planning on teaching after receiving his A. B. degree).

Courses on Passing Weather (Geog. 221) and Meteorology (Geog. 22), following that on Weather and Climate (Geog. 12), are open to Juniors and Seniors while still more advanced work, in Physics of the Air (Physics 29), may be had in the department of Physics.

German and French, one for two years and the other for three, English for at least two years, Ancient and Modern History, Chemistry, and Biology or Botany are also recommended as collegiate foundations for advanced work in Geography.

## ADMISSION TO THE GRADUATE SCHOOL OF GEOGRAPHY

The Graduate School of Geography is open to any who wish to receive professional training in Geography, and who are qualified to enter the Graduate Division of the University and take advanced work in Geography. Degrees of Master of Arts and of Doctor of Philosophy are conferred. For the A. M. degree two years will be required, except for those whose preparation the faculty considers sufficient to permit them to qualify in less time.

A special feature of the program of geography courses is the rather closely synchronized sequence on the physiography, climatology, plant geography and agriculture of the various regions of the world one year and of the regions of North America another. Coupled with the courses on geographic aspects of world trade and of the foreign trade of the United States, in corresponding years, these sequences constitute a sort of super-course on regional geography. The schedule is so arranged that on Mondays and Wednesdays the second semester, the physiography comes at 9, the climatology at 10, the plant geography at 11, and the agricultural

geography at 2—all as nearly as possible for the same regions on the same days. The world group of courses will be offered in 1929-30.

In the Summer School each year (see page 82) many members of the geography staff offer both elementary and advanced courses. These are available both for preparation for graduate work and for meeting the requirements for the M. A. degree in part.

## REQUIREMENTS FOR M.A. AND PH.D. DEGREES IN GEOGRAPHY

All candidates for degrees in Geography while in residence will be expected to attend the Field Camp for three weeks each autumn and during the year to take part in the Thesis and General Seminars. Formal Geography course work in spring ends May 1, leaving students free to read and to coordinate their work for the year prior to the examination period.

Candidates for the Master's degree in Geography will be expected to pass written examinations and a general oral examination in the several fields of geography listed in the tabular outline above. These examinations will cover principles and some regional or other applications of Physiography, Climatology, Soils, Plant Geography, Economic and Commercial Geography, Anthropogeography, Regional Geography, and Geography in Education. A capable candidate who has recently graduated from college and who has done very well in collegiate courses in geography equivalent to four whole-year courses in the fundamentals outlined in the statement of geography courses for college students, on the page second before this one, should be able to prepare himself for these examinations and also have his Master's thesis ready by the end of his first year of graduate work.

For those who have taken their college work some years ago or whose preparation has been irregular or apparently inadequate the staff may require anticipatory examinations in certain subjects before or at the time of entrance. On the basis of credentials and such anticipatory examinations as may be required the staff will advise a prospective candidate as to the minimum time he will probably need for the Master's degree.

Candidates for the Doctor's degree in Geography will be expected to pass more advanced written examinations and a general oral examination including the broad foundation required for the Master's degree and such more advanced studies as the candidate may have pursued in the fields of his particular interests. In general, a year of course work beyond the Master's degree should prepare a candidate for his general examination which is preliminary to his being accepted as a candidate for the Ph.D. degree and to his entering on concentrated work for his Ph.D. dissertation. This year of course work may well include, besides certain advanced courses in Geography, related advanced studies in History and International Relations, Economics, or Physics. The student is given much freedom of choice. It is by February 1 during this year that the prospective candidate for the doctorate will be expected to show a reading knowledge of German and French,1 the two foreign languages most important for American geographers to know.

## STUDENTS' FEES

All Geography students in residence must meet the Camp fee, the Workroom fee, and a Classroom Materials fee. The Camp fee covers board and lodging, transportation, maps, drafting supplies, and meteorological instruments from the time the party leaves Worcester to go to Camp till it returns at the end of the three weeks' period. The three days' trip to Cape Cod at the end of the Camp period is included. The fee is \$75.00, payable October 1 to the Camp treasurer.

The Workroom fee is in the nature of a laboratory fee, and it is assessed to help maintain the Geography Workroom and its equipment. Each graduate student in residence has a desk, shelf-space, and a section of an alcove in the Workroom. The files of maps, the card catalog and the Libbey Library and Bibliography are at hand. A section of the Workroom is also given over to drafting tables with a large and varied equipment of drafting instruments, which are available to the use of students. There is also an adding

<sup>&</sup>lt;sup>1</sup>While German and French will normally be the two languages required an exception might be made in a case where the dissertation for the doctorate demands a comprehensive knowledge of Spanish.

machine. The Workroom fee is \$5.00 a semester, payable November 1 and March 1, to the departmental secretary.

The Classroom Materials fee is largely an outgrowth of the demand for mimeographed outlines, abstracts, summaries, and chapters of theses in the various courses and in the seminars. Whereas formerly the students in several classes paid piecemeal for these or had them done individually at their own expense, this blanket fee makes the process simpler, by concentrating fees and the mimeographing in one office. It also provides in part for the maintenance of the classroom wall-maps and other equipment. All students in residence receive the mimeographed material for all courses whether they attend or not. Furthermore, this fee covers the small expense of balloons and hydrogen and for some meteorological instruments in connection with the informal 15-minute daily weather meetings. The Classroom Materials fee is \$5 each semester, payable November 1 and March 1, to the departmental secretary.

Candidates for the degrees of Master of Arts and Doctor of Philosophy are here reminded of their candidacy and publication fees, totalling \$20.00 for the M.A. and \$40.00 for the Ph.D., payable to the Bursar by Master's candidates by February 8 and by Doctor's candidates by November 1 of the academic year in which they expect to receive the degree. (See page 29).

## ASSISTANCE BY SCHOLARS AND FELLOWS

Scholars and Fellows are expected to assist in the research or other work of the Department to an extent of about 3 hours a week, though never more than 6 in any week unless to concentrate the assistance. The opportunities for assistance will be posted at the beginning of the year, and this work will be assigned as nearly as possible according to the interests of the Scholars and Fellows and in such a way as to be of benefit to the Scholars and Fellows as well as to the Department.

## COURSES IN GEOGRAPHY

#### 1. Primarily for Undergraduates

10. Fundamentals of Geography. A first course in college geography dealing with the geographic factors and geographic principles necessary to the understanding of the relationships ex-

isting between man and his natural environment. A world view of geography forming a good basis for all later courses.

Open to Freshmen.

Three hours, first semester. M. W. F. 9.

Assistant Professor Van Valkenburg To be M. W. F., 8 in 1929-30, and by Professor Ridgley.

181b (formerly 102b.) Geography of North America. An introduction to the study of continental areas. A treatment of the continent as a whole followed by regional studies from various points of view. A desirable foundation for the more advanced and more specialized courses in North America and other continents.

Open to Freshmen. [Prerequisite Geog. 10 or equivalent].

Three hours, second semester. M. W. F., 9.

To be omitted in 1929-30

PROFESSOR ATWOOD AND
ASSISTANT PROFESSOR VAN VALKENBERG

185b (formerly 104b). Geography of Europe.

Open to Freshmen. [Prerequisite Geog. 10 or equivalent].

Three hours, second semester. M. W. F., 8.

Omitted 1928-29. Professor Ridgley

Geology 12. General Geology. See page 118. Three hours, through the year. M. W. F., 8; F. 2.

Professor Little

12. Weather and Climate. This course aims (1) to give the student an understanding of weather processes, largely through watching the passing weather; (2) to train him in daily forecasting; (3) to show how various weather combinations make up the several types of climate; and (4) all through the year to bring out the intimate effects of the weather on all sorts of human affairs. Elementary Meteorology is taken up systematically during the first semester, and elementary Climatology the second.

Three hours, through the year. Tu. Th. S., 8; Tu. 11 or 2.

Daily pilot balloon flights.

Professor Brooks, assisted by Mr. Koeppe, 1st Semester; Mr. Koeppe, 2nd. Semester.

To be omitted in 1929-30.

15a (formerly 14a). Economic Geography (Agricultural). A study of the influence of the natural environment on the production of and trade in the more important agricultural products. This course and 15b constitute a full year's course in Economic Geography.

Three hours, first semester. Tu. Th. S., 8.

Omitted in 1928-29. Professor —

16b (formerly 15b). Economic Geography (Industrial). A study of the influence of the natural environment on the production of and trade in the more important mineral, forest, factory, and sea products; continental and ocean trade routes, major commercial divisions and trade regions of the world.

Three hours, second semester. Tu. Th. S., 8.

PROFESSOR .

Omitted in 1928-29.

Geology 121a. Mineralogy. See page 118.

Three hours, first semester.

PROFESSOR LITTLE

Geology 122b. Economic Geology. See page 118.

Three hours, second semester. Omitted 1928-29.

PROFESSOR LITTLE

2. For Graduate Students and Advanced Undergraduates 22. Meteorology. A systematic study of weather science. Prerequisites: Math. 1, Physics 11, and Geog. 12, or equivalents.

Two hours, through the year. Tu. Th., 8; Tu. 1-2.

New course, to be offered alternate years, beginning 1929-30.

Professor Brooks

221. The Passing Weather (formerly Physics 19, Laboratory Meteorology). Daily outdoor meeting including an observation of the weather; a pilot balloon flight; discussion and interpretation of the weather for the past 24 hours from local observations, weather maps and reports; and weather forecast for the following night and next day. Members of this class will be responsible for the operation of the University meteorological observatory.

Prerequisite: Geog. 12 or equivalent.

One hour, through the year. Daily 12:45-1, and occasional PROFESSOR BROOKS other periods.

Physics 29. Selected Studies in Physics of the Air. An opportunity for a more profound study of certain phases of meteorology, based on W. J. Humphreys' "Physics of the Air."

Open only to those in the Meteorology class (Geog. 22).

One hour, through the year. To be arranged.

Omitted 1928-29. Professor Goddard and Professor Brooks

290a (formerly 190b and 29b). Cartography and Graphics. Principles and practice of map-making, constructing of diagrams, and relief drawings.

Open only to students majoring in Geography.

One hour, first semester.

PROFESSOR ATWOOD AND MR. BURNHAM

29b (formerly 28b). Geography in Education. A survey of geography in the present-day American school stystem, including elementary school, high-school, teacher-training institutions, colleges and universities; examination and comparison of present courses of study in each group of schools; problems of high school and normal school emphasized; designed to meet the needs of those expecting to teach Geography.

Prerequisites: Geography 10a and other geography courses

totaling at least 18 hours.

Three hours, second semester. M. Tu. W., 8.

PROFESSOR RIDGLEY

## 3. Exclusively for Graduate Students

30. Thesis Seminar in Geography. Candidates for Master's and Doctor's degrees are directed in selection of themes for theses. Outlines of theses are here presented for criticism, followed by presentations of successive chapters as these are prepared. Members of the staff lead the discussion, which is participated in by all members of the Seminar.

Two hours, through the year. M., 4-6. Professors Ekblaw and Semple (1st semester), Professors Ekblaw and Jones

(2nd semester).

300 (formerly 301). General Seminar in Geography. Meetings for discussion of contemporary advances in geography.

One hour, through the year. To be arranged.

Omitted, 1928-29.

STAFF

#### PHYSIOGRAPHY

31a (formerly 21a). Principles of Physiography. A lecture, field and laboratory course designed to acquaint the student with the principles of physiography in such a way that he can apply them in the field or in map interpretation.

Prerequisite: Geology 12, or equivalent in Physiography.

Two hours, first semester. M., 9; Tu. 2-3:30.

Omitted in 1928-29. Professor Atwood and Assistant

- 310. Research in Regional Physiography. A critical review of the source material on Physiography and of the leading contributions made by those who have developed this phase of geographic investigation.

  PROFESSOR ATWOOD
- 311 (formerly 211). Physiographic Regions of North America.

Prerequisite: Geography 31a or equivalent. Two hours, through the year. Tu., 9, 2-3:30.

To be omitted 1929-30.

PROFESSOR ATWOOD AND MR. BURRILL

319b (formerly 210b). Physiographic Regions of the World.

Prerequisite: Geography 31a or equivalent. Two hours, second semester, M. W., 9,

Omitted 1928-29.

Professor Atwood

#### CLIMATOLOGY

32a (formerly 22a). Principles of Climatology. A study of principles, brought home by original observations and by compilation, graphing and mapping climatic data and interpreting the results.

Prerequisite: Geography 12 or equivalent. Two hours, first semester. T. W., 9.

Omitted in 1928-29. Professor Brooks and Assistant

- 320. Research in Climatology or Climates of the World. Special studies in the climates of particular regions or in comparative climatology.

  PROFESSOR BROOKS
- 321. (formerly 221). Climatology of North America. Factors controlling the distribution of climates in North America. The climatic regions and explanations of their characteristics. Original studies.

Prerequisite: Geog. 32a or equivalent.

Two hours, through the year. M. W., Th., 9.

Professor Brooks

329b (formerly 220b). Climatic Regions of the World. Reports by members of the class on climatic regions by continents; continental explanatory summaries and intercontinental comparisons by the professor. This course and the physiographic regions, plant and agricultural regions courses are synchronized as closely as possible.

Prerequisite: Geography 32a or equivalent. Two hours, second semester. M. W., 10.

Omitted in 1928-29.

PROFESSOR BROOKS

## SOILS AND PLANT GEOGRAPHY

33b. Soil Geography. Geographic types of soils, their mode of formation and distribution. Soil regions in relation to relief, climate, vegetation, and agriculture.

One hour, daily, 1 p. m., one month in spring. Field trips.

Dr. Marbut

330. Research in soils.

DR. MARBUT

Botany 24a. General Botany Treated from a Taxonomic and Ecologic Standpoint. (See page 96)

Three hours, first semester. Assistant Professor Potter

To be omitted 1929-30.

34a (formerly 23a). Plant Geography The responses of plants and plant groups to the factors of physical environment and their interrelationships. The physical bases of plant distribution.

Prerequisites: Botany 24a or equivalent, Geology 12 or equiva-

lent in physiography, and Geography 12 or equivalent.

Two hours, first semester. M. W., 11. Professor Ekblaw

340. Research in Plant Geography. Professor Ekblaw

349b (formerly 230b). Plant Regions of the World.—The distribution of plants, plant types and plant groups in response to physical factors, and its effect upon human activities.

Prerequisite: Geography 34a.

Two hours, second semester. M. W., 11.

Omitted in 1928-29.

Professor Ekblaw

341b (formerly 231b). Plant Regions of North America. An intensive study of plant distribution in North America.

Two hours, second semester.

To be omitted 1929-30.

Professor Ekblaw

#### AGRICULTURAL GEOGRAPHY

35a (formerly 242a). Physical Bases of Agriculture. A course in the relation of physical environment to the character of land utilization, and to the various types of land use; the physical and economic factors that enter into the delimination of agricultural regions; the influences of relief, climate, soil, and other physical factors upon the distribution of crops; the economic interdependence of the various regions of the United States.

Prerequisite: Geography 10, or equivalent.

Two hours, first semester. M. W., 2. Professor Ekblaw

350. Research in Agricultural Geography or Land Utilization.

Professor Ekblaw

351b. Agricultural Regions of North America. (Formerly 342b. Land Utilization and Agricultural Resources).

Prerequisites: Geography 15a, 31a, 35a, and approved courses

in Economics.

Two hours, second semester. M. W., 2. Professor Ekblaw To be omitted, 1929-30.

359b. Agricultural Regions of the World.

Prerequisites: Geography 15a, 31a, 35a, and approved courses in Economics.

Two hours, second semester. M. W., 2. New course, to be offered 1929-30. Profess

PROFESSOR EKBLAW

#### INDUSTRIAL AND COMMERCIAL GEOGRAPHY

36b (formerly 25b). Industrial Geography. A research and lecture course on the leading manufacturing industries of the world; an analysis of the essentials of manufacturing; the sources of power; the iron and steel industries, including the alloy minerals; the automobile industry; agricultural machinery; electrical machinery; textile machinery; the textile industries; and other selected industries. In the study of these industries emphasis will be placed on the location, raw materials, power, labor, capital, type of product, and other conditions influencing the evolution of the industry. The course will conclude with an analysis of the chief manufacturing regions of the world.

Prerequisite: Geography 16b and 31a or 32a.

Two hours, second semester 1928-29 Tu., 2-4, first semester 1929-30, Tu., 10, 2. Professor Jones

## 360. Research in Industrial or Commercial Geography.

Professor Jones

362b. Geographic Aspects of United States Foreign Trade. Two hours, second semester.

New course, to be offered in 1930-31. Professor Jones

369b. Geographic Aspects of World Trade. Geographic bases of modern world trade; major and commercial divisions and trade regions of the world; the flow of commodities by commercial divisions and trade regions; and analysis of the major movements in leading world commercial products; the chief world trade routes; an analysis in some detail of the trends of trade in selected regions.

Two hours, second semester. Tu. Th., 9.

New course, to be offered 1929-30, and alternate years thereafter.

Professor Jones

#### ANTHROPOGEOGRAPHY

37a (formerly 27a). General Principles of Anthropogeography. This course considers the operation of geographic factors in the economic, social and political development of peoples; the influences of location, area, relief, coastline, drainage systems, climate, and other geographic conditions both separately and in

their mutual interplay. Ellen C. Semple's Influences of Geographical Environment will be used as a text.

Prerequisites: 9 hours of Geography or History and permis-

sion of the instructor.

Three hours, first semester. M. W. F., 10.

Omitted in 1928-29. Professor Semple

History 211a. Historical Geography of the United States. (See page 128).

Three hours, first semester. M. W. F., 11.

Professor Hedges

370a. Research in Anthropogeography.

PROFESSOR SEMPLE

375a (formerly 274a). Geography of Europe. This course includes a study of the climate, relief, coastline and marginal seas of the continent as a whole, to be followed by a detailed consideration of the ethnic, economic and political geography of the Eastern European states. These include Finland, Poland, Roumania and the Soviet Republics.

Prerequisite: 6 hours of European history.

Two hours, first semester. M. T. 4. Professor Semple Omitted in 1928-29.

376a (formerly 275a). The Geography of the Mediterranean Region, especially in relation to Ancient History. Lectures and assigned readings. A geographical interpretation of ancient history in Mediterranean lands, embracing a study of the various geographic factors operative in the countries bordering this enclosed sea under the peculiar influences of the Mediterranean climate, at a time when the Mediterranean constituted most of the known world.

Prerequisites: 9 hours of Geography or History, and permission of instructor.

Three hours, first semester. M. T. W., 10.

To be omitted 1929-30.

PROFESSOR SEMPLE

378a (formerly 207b). The Geography of Eastern Asia. A lecture course with generous reading assignments.

Prerequisite: Geography 10a or some history of the Far East.

Two hours, first semester.

Professor Semple

To be omitted in 1929-30.

379a (formerly 37b). History of Geographical Theory.

One hour, first semester. M., 4. Professor Semple

## REGIONAL GEOGRAPHY

383a. Caribbean America. A lecture and research course on the geography of Mexico, the Central American states, and the islands bordering the Caribbean Sea; the historical background of the republic and the islands of the Caribbean; the major geographic regions of the different countries; the economic positions of the republics and islands; economic and other problems facing the various regions; the expansion of the United States into the Caribbean; the commercial importance of the various republics and islands as a market for manufactured wares and as a source of foodstuffs and raw materials.

Three hours, first semester. M. T. W., 8.

New course, to be offered 1929-30, and alternate years thereafter.

Professor Jones

384b (formerly 243a). South America. A geographic survey of the continent of South America; the major physiographic regions and the chief climatic types; the distribution of vegetation; transportation; the population; the major problems facing the South American republics; the major geographic regions of the several countries; South America as a source of raw materials and foodstuffs and as a market for manufactured wares.

A graduate course. Elective if the students take Caribbean

America.

Three hours, second semester. T. T. S., 9. Professor Jones

385a (formerly 304a). Geography of Europe.

Two hours, first semester. Tu., 11, 4.

To be omitted, 1929-30.

Assistant Professor Van Valkenburg

388b (formerly 307b). Geography of the Far East. A series of lectures. Assistant Professor Van Valkenburg

History 22. The Pacific and the Far East. See page 126. Three hours, through the year. M. W. F., 10.

PROFESSOR BLAKESLEE

#### **METHODS**

392a (formerly 20a). Field Methods and Studies. An intensive field study of a portion of the Connecticut Valley in Massachusetts. Required of all candidates for graduate degrees in geography who have not previously had a field course or field experience equivalent to this. Second and third year graduate stu-

dents in residence are expected to take this course every year, for the area studied is a new one each autumn and there are numerous special problems of interest to the experienced student. The last three days of the camp period are used for a reconnaissance field trip to the end of Cape Cod.

An inclusive camp fee of \$75.00 is payable to the treasurer of the camp, October 1. (See page 70).

Three hours, Oct. 1-20, 1928; Sept. 30.-Oct. 19, 1929.

39. Field Geography (Individual Work). For students in the field collecting information for their theses.

ANY MEMBER OF STAFF

## HOME STUDY COURSES IN GEOGRAPHY

There are many teaching Geography in the schools of this country who have not had an opportunity to receive adequate special instruction in this field of work. During the last few years there have been notable developments in the methods used in the teaching of Geography and notable changes in the political geography of the world. The human point of view should now dominate in all of the instructional work done with children; the subject should broaden the knowledge and world sympathies of the American people, and it is necessary for all teachers of Geography who wish to be abreast of the times to carry on in some way their own study and training.

The University wishes to extend its services as widely as possible for the betterment of the teaching of Geography, and therefore, in addition to the regular resident courses and the Summer School work, is offering a series of Home Study Courses. Professor Ridgley is in immediate charge of this work.

#### COURSES

- 1. The Teaching of Geography in the Elementary School.
- The Teaching of Home Geography and World as a Whole.
- 3. The Teaching of North America.
- 4. The Teaching of South America, Europe and Asia.
- 5. The Teaching of Geographic Factors and the United States in its World Relations.

- 6. Industrial and Commercial Geography.
- 7. Geography of North America.
- 8. Geography of South America.
- 9. Geography of Europe.
- 10. Geography of the Eastern Continents.
- 11. The Phyiscal Geography of the Lands.
- 12. Weather.
- 13. Elements of Climatology.
- 14. Climates of the World.
- 15. Climatology of the United States.
- 16. Mathematical Geography.
- 17. Graphics and Cartography.
- 18. Special Studies in Geography.

# CREDITS AND TUITION

Each course consists of 36 written lessons and is intended to be the equivalent of a college course taken in residence, meeting three times per week for a semester of 18 weeks. In general, the preparation and the writing of each lesson is expected to require about four or five hours.

The tuition for each course is eighteen (\$18.00) dollars, payable at the time of enrollment. A course may be begun at any time, but it should be completed within 12 months.

Further information about these courses will be sent upon the receipt of a request. Address all communications to Clark University, Home Study Department, Worcester, Mass.

# THE SUMMER SCHOOL

The session of 1929 will begin July 1 and end August 9. Instruction will be offered in Geography, History and Economics.

Qualified students are admitted upon presentation of proper credentials. Both undergraduate and graduate work is offered. Work done in the Summer School may be counted, subject to the regulations of the Collegiate and the Graduate Boards and of the Faculty of the University, toward fulfillment of the requirements for the degrees of Bachelor of Arts, Bachelor of Education and graduate degrees. Unless otherwise announced, each course is intended to be the equivalent of a course meeting two hours per week throughout a semester and is credited, when accepted toward the fulfillment of the requirements for a Bachelor's degree in this University, for two semester hours.

The tuition charges are twenty dollars for a single course meeting five times a week and thirty-five dollars for two or more courses. Rooms in the vicinity of the University cost from three dollars a week up, and the University Dining Hall provides board at a reasonable rate.

The Summer School Bulletin, published about February 1, contains detailed information about the coming session with descriptions of the various courses, and may be had upon application to the Director of the Summer School, Clark University, Worcester, Mass.

The names of the students who attended the Summer School in 1928 will be found in the Register, beginning on page 157 of this catalogue.

#### TRANSCONTINENTAL FIELD TRIP

Members of this field party will meet at Clark University at the opening of the Summer Session, July 1. Preliminary study, under the guidance of the instructor in charge, will be given to the geography and the history of the regions to be visited. The party will leave Worcester on Wednesday, July 3, by motor coach for a journey of 8,000 miles during a period of eight weeks, returning to Worcester on Friday, August 23rd.

The itinerary includes: New York, Washington, Memphis. West-bound: Grand Canyon, Los Angeles, Yosemite Park. East-Bound: San Francisco, Salt Lake City, Yellowstone Park, Chicago, New York.

The cost of the trip is \$600, including tuition, transportation by motor coach from Worcester back to Worcester, hotel and meals while on trip. A payment of \$50 is made at time of enrollment. The balance is payable on or before May 5, 1929. Twenty-two students will make up the party. Early correspondence is requested.

#### FIELD TRIPS FOLLOWING THE SUMMER SCHOOL

Arrangements have been made for two field trips following the Summer School. Each trip will be made by motor bus with accommodations for twenty-two persons. Both trips begin Saturday, August 10. The Dutch and Quaker Colonies Trip of two weeks is in charge of Professor Edgar C. Bye. The Maritime-Canada-Quebec Trip of three weeks is in charge of Professor Clarence F. Jones. All inquiries concerning enrollment, reading lists, and more detailed plans of the various trips should be addressed to Clark University Summer School, Worcester, Massachusetts.

All inquiries concerning enrollment, reading lists, and more detailed plans of the various trips should be addressed to Clark University Summer School, Worcester, Massachusetts. As soon as reservation for a trip has been made, the student will be put into communication with the instructor in charge.

Early correspondence is invited, as final arrangements must be completed early in July.

# OFFICERS OF INSTRUCTION AND ADMINISTRATION

Wallace Walter Atwood, Ph.D. Geography
President of Clark University and Director of the Graduate School of Geography.

Douglas Clay Ridgley, Ph.D. Geography
Director of the Summer School and Professor of
Geography in Education, Clark University.

- CHARLES FRANKLIN BROOKS, Ph.D. Meterology and Climatology Professor of Meteorology and Climatology, Clark University.
- CLARENCE FIELDEN JONES, PH.D. Geography
  Professor of Economic Geography, Clark University.
- Walter Elmer Ekblaw, Ph.D. Geography
  Professor of Geography and Managing Editor of Economic Geography, Clark University.
- Bert Hudgins, M.S. Geography
  Professor of Geography and Head of the Department of
  Geography and Geology, College of the City of Detroit, Detroit, Michigan.
- CLARENCE EUGENE KOEPPE, A.M. Meterology and Climatology Research Fellow, Clark University, 1927-29.
- GUY H. BURNHAM, A.M. Cartography
  Cartographer, Clark University.
- DWIGHT ERWIN LEE, PH.D.

  Assistant Professor of Modern European History, Clark
  University.
- EDGAR C. Bye, A.M.

  Professor of Social Studies, State Teachers' College,
  Shippensburg, Pennsylvania.
- Samuel J. Brandenburg, Ph.D. Economics
  Professor of Economics and Sociology, Clark University.
- EUGENE C. BELKNAP Source Material in Economic Geography Curator, Department of Chemistry, Clark University.

CAREY EYSTER MELVILLE

Registrar

FLORENCE CHANDLER

Bursar

# LIST OF COURSES

The starred courses (\*) are those definitely intended for students who are candidates for the degree of Master of Arts in Clark University. Other qualified students are admitted to these courses.

# **GEOGRAPHY**

SS11. Field Work in Geography.	Mr. Ekblaw
SS14. Economic Geography.	Mr. Jones
SS110. Phyisography.	Mr. Ekblaw
SS121. Elements of Climatology.	Мя. Коерре
SS123. Climates of North America.	Мк. Коерре
SS160. Geographic Bases of Nature	Study. Mr. Ekblaw
SS180. Materials in Geography.	<b>,</b>
	GLEY AND MR. BELKNAP
0 1 2	
SS190. Mathematical Geography.	Mr. Burnham
*SS21. Regional Geography of No	orth America.
	Mr. Atwood
*SS24. South America.	Mr. Jones
SS28. Geography in Education for	r Special Teachers.
	Mr. Ridgley
*SS30. Seminar in Geography.	THE GEOGRAPHY STAFF
*SS300. Research in Physical and Regional Geography.	
	Mr. Atwood
	MR. ATWOOD
*SS32. Research in Climatology.	
Mr.	Brooks or Mr. Koeppe
*SS34. Research in Geography of South America.	
	Mr. Jones
HISTORY	

msioki	
SS11. History of Massachusetts. Mr. Bye	
SS16. The Teaching of History. Mr. ByE	
SS151. Introduction to American National Government.	
Mr. Bye	
*SS22. Recent International Relations of Europe.	
Mr. Lee	
*SS211. History of Europe in the Nineteenth Century.	
Mr. Lee	

# **ECONOMICS**

SS1. Principles of Economics. Mr. Brandenburg \*SS4. Economic History of the United States. MR. BRANDENBURG

# THE BACHELOR OF EDUCATION DEGREE

The degree of Bachelor of Education is offered primarily to teachers, both men and women. A two-year Normal School course is presupposed and a year of teaching experience is a pre-requisite for the degree.

Candidates for this degree may earn the necessary credit by attendance at the Summer School or by taking such courses as may be open to them at other times.

Women who are candidates for this degree will usually not find it possible to secure a full program of courses during the regular academic year.

Courses are offered during the regular academic year on Saturday morning and on certain afternoons for the convenience of candidates for this degree who are teaching in or near Worcester. By taking advantage of these courses it is possible for a teacher to complete in three or four years the equivalent of a year of study in residence.

- 1. Admission Requirements. The completion of a standard two-year course in a Massachusetts State Normal School, or the reasonable equivalent of such a course.
  - 2. Requirements for the Degree:
    - a. At least one year's teaching experience.
    - b. At least 30 semester hours of credit earned in residence at Clark University
    - c. 120 semester hours of college credit, including advanced standing based upon the admission requirements.
    - d. Requirements in particular subjects:
      - (1) Six semester hours in Psychology or Education taken after the completion of the two-year Normal School course or its equivalent.
      - (2) Six semester hours of Laboratory Science taken after the completion of the two-year Normal School course or its equivalent.
      - (3) Ten semester hours of English, which may be taken in whole or in part in the Normal School course.

- (4) Ten semester hours of foreign language, which may be taken in whole or in part in the Normal School course.
- (5) Twelve semester hours of Economics, Geography, Government, History, or Sociology, at least six of which must be taken after the completion of the two-year Normal School course or its equivalent.
- 3. STANDARD OF SCHOLARSHIP: The same standard of scholarship will be required of candidates for this degree as for the degree of Bachelor of Arts.
  - 4. Advanced Standing:
  - a. Credit of 54 semester hours will normally be given for the standard two-year course in a Massachusetts State Normal School. This may be reduced in special cases.
  - b. Credit will be allowed for work done at other Universities,
     Colleges, or Normal Schools, subject to reasonable regulations.
  - c. Not more than 30 semester hours credit may be allowed for home study or extension courses, the acceptance of any work of this type to be subject to the approval of the registrar.

Inquiries regarding the degree of Bachelor of Education should be addressed to the Registrar of the University.

#### SPECIAL COURSES FOR TEACHERS

In keeping with its long established policy, Clark University offers a series of Extension Courses designed both in respect to content and time of meeting for teachers in the public schools of Worcester and the surrounding region. These courses are also open to the general public. When occasion arises, the subject of aims and methods of teaching is treated in some of these extension courses.

During the academic year 1928-29, the following courses were given:

# BIOLOGY

1. Botany.

2. Physiology.

Mr. Potter Mr. Richards

### **ENGLISH**

1. Contemporary Continental Drama (first semester).

Mr. Dodd

2. Short Story in English (second semester). Mr. Dodd

#### FRENCH

1. Advanced Course.

Mr. Atwood

2. Seminar.

Mr. Churchman

# **GEOGRAPHY**

- 1. Geographic Environment (first semester). Mr. Ekblaw
- 2. Geography of South America (second semester).

Mr. Jones

- 3. Climates of the World (first semester) MR. PAGE
- Climates of the Eastern Hemisphere (second semester).
   Mr. Page
- 5. Geography of Europe (first semester).

Mr. VAN VALKENBURG

6. Geography of Europe and Africa (second semester).

Mr. Van Valkenburg

# **GERMAN**

1. Elementary Course.

Mr. Bosshard

# **MATHEMATICS**

1. Mathematics for Teachers (first semester).

Mr. WILLIAMS

# **PSYCHOLOGY**

- 1. Depth Psychology (first semester). Mr. Willoughby
- 2. Child Psychology (second semester). Mr. Willoughby It is expected that the giving of similar extension courses will continue as long as a demand is evident, the subjects varying from year to year.

The courses are strictly of college grade and may be used for credit toward the degree of Bachelor of Education in this University.

# DEPARTMENTAL ANNOUNCEMENTS AND LIST OF COURSES

Courses offered by the several departments are listed under three headings:

- 1. Primarily for Undergraduates, designated by numbers beginning with the figure (1).
- 2. For Graduate Students and Advanced Undergraduates, designated by numbers beginning with the figure (2).
- 3. PRIMARILY FOR GRADUATE STUDENTS, designated by numbers beginning with the figure (3).

Unless a statement to the contrary is made, all courses listed have been given during the current academic year and will be offered in 1929-30.

Credit for the first semester alone will be given in all courses except in cases where a Department, by a note following the description of the course, specifically reserves the right to withhold credit until the second semester of the course is satisfactorily completed.

Any course may be entered at the beginning of the second semester, with the consent of the instructor, by students who are prepared to take up the work of the course at that time.

# DEPARTMENT OF ANCIENT LANGUAGES

#### PROFESSOR BRACKETT

All courses in Greek and Latin are designed primarily for undergraduates. To any of these courses, however, properly qualified graduate students may be admitted by special permission.

For a major in Ancient Languages the requirement is twentyfour semester hours from the courses described below.

Provision is made in the courses in Greek both for students who have previously studied Greek in the high school, and for those who wish to begin the subject in college. In admitting students to the college full credit is given for one, two, or three

years of high school Greek. Those who have pursued successfully the study of Greek for two or three years may enter directly into course 12. Students who purpose to study Greek in college are strongly advised to take this subject in the preparatory school for two years if possible.

Since a substantial number of students are admitted to the college who have not previously studied Latin, the department from time to time offers to such students an opportunity to take an introductory course in this subject.

#### COURSES IN GREEK

# 1. PRIMARILY FOR UNDERGRADUATES

11. First Year Course. The purpose of this course is to furnish to students who have never studied Greek an opportunity to begin this subject in college. The course not only has in view the needs of students of language and literature, but in connection with the use of Greek in scientific nomenclature should have value for students of science as well.

Divisible only in special cases with the approval of the Department.

Open to Freshmen.

Three hours, through the year. Tu. Th. S., 11.

Mr. Brackett

12. Xenophon, Anabasis; Homer, Iliad. About ten weeks at the beginning of the year are devoted to reading selections from the Anabasis, the principal aim being to increase the student's facility in translation. The remainder of the year is devoted to the Iliad. The aim in this work is distinctly literary. In order that the student may gain an appreciation of the poem as a whole, the entire poem is read, partly in Greek and partly in various verse translations.

Open to Freshmen.

Three hours, through the year. M. W. F., 11. Given in the first semester only in 1928-29.

Mr. Brackett

13. The Greek Drama. Aeschylus, Prometheus Bound; Sophocles, Oedipus Tyrannus; Euripides, Hippolytus. This

course is designed to give a general view of Greek tragedy. Lectures or collateral reading deal with the staging of a Greek play, the origin and development of the drama, and the other works of the authors read. Two or three other plays of each of these authors are read in translation and discussed in class.

Three hours, through the year. T.Th.S., 10. Mr. Brackett

14. Herodotus; Lyric Poetry; Theocritus.

Three hours, through the year.

Omitted in 1928-29, and to be omitted in 1929-30.

16b. Greek Tragedy in English. This course deals with Greek tragedy as represented in the extant works of Aeschylus, Sophocles, and Euripides. All the reading is done in English translations, for the most part in verse. The central aim of the course is an intelligent and appreciative reading of the plays. Much attention is devoted to the connection between Greek and modern drama. The instructor will deal, in lectures, with the origin and development of Greek tragedy, the Greek theatre and related subjects, and Aristotle's theories concerning tragedy.

Three hours, second semester.

Omitted in 1928-29.

MR. BRACKETT

#### COURSES IN LATIN

# 1. PRIMARILY FOR UNDERGRADUATES

11. First Year Course. This course is designed to give men who have never studied Latin an opportunity to learn the essentials of the subject in college. It is conducted entirely with reference to the needs of the general student and with emphasis on the practical usefulness of an acquaintance with Latin in everyday life.

Open to Freshmen.

Divisible only in special cases with the approval of the Department.

Three hours, through the year. M. W. F., 8.

Omitted in 1928-29.

Mr. Brackett

12. Catullus, Selections; Cicero, de Senectute; Horace. Selections from the Odes. The year is about equally divided between the three authors. The study of Catullus and Horace is

mainly literary; and in this connection a careful study is made of the nature and principles of literature.

Open to Freshmen.

Three hours, through the year. Tu. Th. S., 11.

Mr. Brackett

14b. Letters of Pliny; Selection from the Histories of Tacitus, and from Juvenal. These authors are read with particular attention to the information the selections contain in regard to literary and social conditions under the empire.

Three hours, second semester.

Omitted in 1928-29.

15a. Selections from Caesar and Cicero. This course is open to students who have had Latin 11 or its equivalent. The principal aim is to increase the student's ability to read Latin.

Three hours, first semester.

M. W. F., 8.

Mr. Brackett

15b. Selections from Ovid's Metamorphoses.

Three hours, second semester,

M. W. F., 8.

MR. BRACKETT

16a. Lucretius, de Rerum Natura, Selections.

Three hours, first semester.

Omitted in 1928-29.

Mr. Brackett

# DEPARTMENT OF BIOLOGY

Assistant Professor Potter and Assistant Professor Richards

The courses in Biology are intended to give a knowledge of living organisms, including man, and their environment. Biology 11 presents a comprehensive view of Biology that is prerequisite to all other courses in the department. This course is planned for students seeking a cultural education as well as for those who intend to enter professional Biology or related fields.

An undergraduate major in Biology will require:

1. Biology 11 and eighteen semester hours in advanced courses which should be chosen with the approval of the staff and should include at least one year of Biology 28 and 29.

- 2. Chemistry 11 or 12, Physics 11, and Mathematics 10 or 11 (required of all students majoring in science). Other recommended courses are: Chemistry 113, 115 and 18; Mathematics 113; Physics 28; and Psychology 11 and 12.
- 3. A reading knowledge of French or German—both languages if possible.
- 4. Fulfillment of other requirements of the University for the bachelor's degree.

Students planning to enter dentistry or medicine are advised to obtain the A.B. degree, majoring in Biology or Chemistry. When this is impossible the following course is suggested:

Freshman year; English 11, a foreign language (preferably German) Chemistry 11 or 12, Mathematics 10 or 11, an elective from division B.

**Sophomore year**; English 14 (if required), a foreign language (continued), Chemistry 113, Biology 11, an elective from division B.

Junior year; Chemistry 115, Biology (one course), Physics 11, two electives.

The following elective subjects are suggested by the American Medical Association: Drawing, Economics, English, Greek, Latin, Mathematics, Political Science, Sociology.

Graduate students who desire to study for the master's degree in Biology should present an undergraduate major in Biology and a broad training in the related branches of science. Programs of study for graduate students will be arranged upon consultation with the chairman of the Department. Opportunity is offered for instruction, supervised experimental work and independent investigation.

The laboratories are well equipped for the courses offered and contain in addition some special equipment for advanced investigation in physiology. A small herbarium and a synoptic collection of animals are available for study. The University Library contains complete files of the more important periodicals for biological science and a representative collection of reference works.

Graduate scholarships are available for study in this department.

# COURSES IN BIOLOGY

# 1. PRIMARILY FOR UNDERGRADUATES

11. General Biology. A general introduction to the fundamental principles and problems of Biology. The first semester is devoted to plant biology and the second to animal biology. Prerequisite to all other courses in the department. Three lectures and one laboratory period per week. Due to limited laboratory accommodations the number of students accepted for this course is limited.

Indivisible course.

Open to Freshmen.

Three hours, through the year. M. W. F., 10; W., 2.

Mr. Potter, first semester Mr. Richards, second semester

12. Vertebrate Zoology. The elements of vertebrate anatomy, embryology, histology and the development of the germ cells and their relation to genetics. Two lectures and two laboratory periods per week. Prerequisite Biology 11.

Indivisible course.

Three hours, through the year. W. F., 9; M. Tu., 2.

MESSRS. POTTER AND RICHARDS

14. Botany. This course deals with a more detailed study of plant life and serves as a continuation course after Biology 11. Emphasis is placed upon those groups of plants which are of evolutionary significance. In addition this study will be augmented in the spring by field work to acquaint the student with the local flora. Prerequisite Biology 11. Three lectures and one laboratory period per week.

Indivisible course.

Omitted in 1928-29.

Mr. Potter

Three hours, through the year. Tu. Th. S., 11; Th., 2.

160. Microscopical Technique. A course dealing with the preparation of tissues for study with the microscope. The principles of fixing, sectioning and staining will be worked out in the laboratory. Hours and credit to be arranged.

MR. POTTER OR MR. RICHARDS

18b. Bacteriology. An introduction to the principles of bacterial physiology, and to general bacteriological technique. Prerequisite is Biology 11. Two lectures and two laboratory periods per week.

Three hours, second semester. W. F., 9; Tu., 2, and additional period.

Mr. POTTER

Offered in 1927-28, and alternate years.

# 2. For Graduate Students and Advanced Undergraduates

21a. Invertebrate Zoology. A detailed study of the structure, life-histories and behavior of representative invertebrate animals. Emphasis is placed upon the laboratory work. Two lectures and two laboratory periods per week. Prerequisite Biology 11.

Three hours, first semester. M. 2-5. Mr. RICHARDS Offered in alternate years. Omitted in 1928-29.

Note: Of the courses 22 and 26, both announced for 1929-30, it is probable that one only will be given. These courses will thereafter be offered in alternate years.

22. Human Physiology. A course primarily for students in Psychology. The topics to be studied include muscular action, the nervous system, nervous coördination, chemical coördination by internal secretion, the digestion, absorbtion, and utilization of foods in the body, the excretion of wastes and the maintenance of the body. Application of the information will be made to the analysis of conduct and the efficient use of the body. The detail of the course will be adjusted to the needs and training of the class. Prerequisite, Biology 11, or its equivalent, and consent of the instructor. A year course (not divisible). Lectures, demonstrations and laboratory.

Three hours, through the year. Hours to be arranged.

To be offered in 1929-30 and alternate years. Mr. RICHARDS

# 23. Special Problems.

Through the year. Hours and credit arranged.

STAFF OF THE DEPARTMENT

To be replaced by Biology 28 in 1929-1930.

24a. Taxonomy and Ecology of Plants. A course primarily for students majoring in geography. A study of the main types of vegetation and the use of keys for the identification of plants. Three lectures per week.

Three weeks, first semester. M. W. F., 11. Mr. POTTER

26. General Physiology. An introduction to the fundamental structure and behavior of living organisms, the analysis of their vital activities and of the physical-chemical nature of the functions underlying them. Open to students who have had Biology 11 and who satisfy the instructor as to their preparation in Chemistry and Physics. Two lectures and two laboratory periods per week.

Three hours, during the year. Tu., 11-1; Tu. W., 2.

Omitted in 1928-29.

Mr. RICHARDS

28. Special Problems. Advanced, semi-independent study of an approved biological topic under the direction of a member of the staff. Hours and credit to be arranged.

STAFF OF THE DEPARTMENT

Replaces Biology 23 previously given.

29. Seminar. One hour, during the year.

Mr. RICHARDS

# 3. PRIMARILY FOR GRADUATE STUDENTS

- 30. Research. Topics to be arranged upon consultation with the professor in charge of the student's work. Hours and credit be arranged.

  MR. POTTER OR MR. RICHARDS
  - 31. Problems in Morphology or Plant Biology.

Mr. Potter

32. Problems in General Physiology or Animal Biology.

Mr. Richards

# DEPARTMENT OF CHEMISTRY

Professor Merigold, Professor Warren, Assistant Professor Bullock

The instruction offered in Chemistry falls into two main groups: First, courses intended primarily for undergraduates. These are designed for those students who wish to acquire the necessary foundation for professional work in Chemistry, for pre-medical students, and for those desiring some knowledge of the subject as part of their general education.

Second, courses intended primarily for graduates. These courses offer advanced instruction to students possessing the requisite foundation in Chemistry, Physics, and Mathematics, and afford training in the methods of chemical research.

# Undergraduate Work

Students who expect to make Chemistry a profession should major in Chemistry and should either take a minor in Physics or at least two years' work in that subject.

Students intending to study Medicine should take as much work in Chemistry as possible. Courses 11, 13, or 15 and 110 are essential. Courses 14, 18, and 216 should be included, if possible. In fact, the subject of Physical Chemistry, course 18, is even now required for admission to some of the medical schools and is almost equally essential with the courses before mentioned. Attention is called to the statement regarding pre-medical courses under the announcement of the Department of Biology.

The attention of all students intending to enter undergraduate courses in Chemistry is called to the matter of the laboratory fees and breakage deposits on page 29.

#### GRADUATE WORK

It is the purpose of the Department of Chemistry to provide the graduate student with that broad training in the fundamental principles of Chemistry which shall adequately equip him for a subsequent scientific career. A considerable number of the students entering this department for graduate work will naturally look forward to an academic career. It is not intended, however, to provide training for such men alone, for the equipment for technical research, whether for public or private interests, requires equally a thorough familiarity with the underlying principles of science and with the methods of experimental investigation. Whether a student shall devote himself to pure or to technical research is a matter of individual interest and inclination rather than of training. The purpose of the department is to provide

the training on lines sufficiently broad to enable the student to exercise a choice between technical and purely scientific work.

# ADVANCED DEGREES AND RESEARCH

The requirements for advanced degrees cannot be met by the mere pursuit of a course of studies nor by the mere execution of a research. For this reason no definite course of graduate studies is outlined, but the student is expected to carry such courses as will enable him to acquire a comprehensive knowledge of the subject of Chemistry during the course of his residence at the University. Students who are not fully prepared for graduate work will be required to make up any deficiencies either before undertaking graduate work or while at the same time taking a limited amount of graduate work. In such cases it is to be expected that the time necessary to obtain an advanced degree will be correspondingly extended.

The degree of Master of Arts is the only advanced degree granted.

All students registered for the advanced degree are expected to devote not less than eighteen hours per week to laboratory work. A portion of the time may be devoted to special laboratory work in organic, inorganic, and physical Chemistry.

Graduate scholarships are available for students in this department.

# COURSES IN CHEMISTRY

# 1. Primarily for Undergraduates

11. General Chemistry. Chiefly inorganic. Systematic study of the elements and their principal compounds, and the fundamental laws and theories of Chemistry. Three lectures, and three hours of laboratory work per week.

Open to Freshmen who have studied Chemistry in High School. Three hours, through the year. M. W. F., 11; M., 2.

Mr. Merigold

12. Elementary Chemistry. Similar to course 11 in general nature and ground covered, but intended primarily for students having no knowledge of Chemistry on entering. Chemistry 12 is considered equivalent to Course 11 as preparation for advanced courses.

Open to Freshmen who have not studied Chemistry in High School.

Three hours, through the year. Tu. Th. S., 9; W., 2.

Mr. Bullock

13. Qualitative Analysis. Basic and acid. Chiefly laboratory work, nine hours per week. Occasional lectures and recitations upon the theories involved. Open only to students who have taken course 11 or its equivalent.

Three hours, through the year. Tu. F., 2.

Mr. Warren

14. Quantitative Analysis. Chiefly laboratory work, with occasional lectures, recitations, and problems. A carefully selected series of quantitative determinations, designed to give the student as wide a range as possible of typical methods of quantitative manipulation, both gravimetric and volumetric. Six hours of laboratory work, and one lecture per week. Open only to those who take or have taken course 13.

Three hours, through the year. Tu. Th., 3:30.

Mr. Merigold

15. Organic Chemistry. Systematic study of the compounds of carbon and their applications to the arts. Three lectures per week. Open to all who have taken course 11 or its equivalent.

Three hours, through the year. M. W. F., 8.

Mr. Warren

16. Qualitive and Quantitative Analysis. Combined course designed for pre-medical students. Principles of qualitative analysis (basic and acid) and of quantitative analysis (gravimetric and volumetric), as exemplified by the analysis of typical unknown substances. Chiefly laboratory work, nine hours per week. Occasional lectures, recitations and problems upon the theories involved. Open only to students who have taken course 11, or its equivalent.

Three hours, through the year. Tu. Th. F., 2. New course to be offered in 1929-30.

MESSRS. MERIGOLD AND WARREN

18. Physical Chemistry. Two lectures and three hours of laboratory a week, introducing the student to the principal chap-

ters of modern chemical theory. To be admitted to this course, students must have passed Chemistry 11 and 14 and Physics 11. A knowledge of organic chemistry and calculus is desirable.

Three hours, through the year. W. F., 9; F., 2.

Mr. Bullock

110. Organic Synthesis and Analysis. Laboratory work, consisting of the preparation of typical organic compounds, qualitative testing for the ordinary elements and organic groups, the quantitative determination of carbon, hydrogen, nitrogen, and the halogens. Course 110 should be taken, if possible, in connection with course 15. The work of this course requires nine hours of laboratory work per week. Open only to students who take or have taken courses 13, 14 and 15.

Three hours, through the year. M. Th., 2.

Mr. Warren

2. For Graduate Students and Advanced Undergraduates

212b. History of Chemistry. This course is intended to cover the historical development of the science. An attempt is made to give the student some knowledge of the individuality of the men whose work has resulted in the growth and development of modern Chemistry. Attention will be given also to the relation of Chemistry to other sciences at various periods of development. Lectures, collateral reading, reports and thesis.

Open to graduate students and seniors who take or have taken Chemistry 11 and 15 or equivalent courses.

Three hours, second semester. Tu. Th., 11.

Mr. Merigold

214. Advanced Quantitative Analysis (including Gas Analysis). Open only to students who have taken course 14. This course is primarily intended for those who expect to specialize in Chemistry, and may also be taken with advantage by those who intend to study Medicine. The laboratory work will be varied, if desired, to meet the needs of individual students. Occasional lectures treat the subject systematically from both practical and theoretical standpoints. Laboratory work, nine hours per week. Three hours, through the year. Tu. Th., 2.

Mr. Merigold

215. Advanced Organic Synthesis. In this laboratory course, newer methods of preparation are studied, and an original investigation is initiated.

Three hours, through the year. M. Th., 2.

MR. WARREN

216. Journal Reading. Practice in the use of current chemical literature. Assignment of journals for report and discussion. Two hours, through the year. Tu. F., 4.

MR. WARREN

217. Intermediates and Dyestuffs. This course covers methods of preparation, properties and uses of the commoner intermediates employed in dyestuff manufacture followed by a study of typical representatives of the more important classes of dyestuffs. Lectures, collateral reading, reports and thesis.

Open to graduate students and undergraduates who take or have taken course 15.

Three hours, through the year. Tu. Th., 10. Omitted in 1928-29.

Mr. Bullock

# 3. PRIMARILY FOR GRADUATE STUDENTS

31. Advanced Inorganic Chemistry. Discussion of special features of inorganic and analytical chemistry, theoretical and practical. Sources of error, limits of accuracy, preparation of pure inorganic materials and exact methods of analysis required in fields of research necessitating precise analysis. Principles of electro chemistry.

Twice a week, through the year, with laboratory work.

Omitted in 1928-29. Mr. Merigold

32. Advanced Theoretical Chemistry. Discussion of the principles underlying the transformation of matter and of the conditions for equilibrium in various systems. Applications of the Phase Rule and the determination of the free energy of chemical reactions.

Three hours, through the year. Tu. Th. F., 9.

MR. MERIGOLD

33. Advanced Organic Chemistry. Conferences are held at which the fundamental conceptions and problems of organic chem-

istry are dealt with in a systematic manner. Current literature, applicable to the subjects under discussion, is reviewed.

Twice a week, through the year. M. F., 11. MR. WARREN

35b. Seminar. Staff and graduate students. Reports on research work being carried on in the laboratory and report and discussion of recently published work in related fields.

Once a week, second semester. W., 5.

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STAFF OF THE DEPARTMENT

# DEPARTMENT OF ECONOMICS AND SOCIOLOGY

Professor Brandenburg, Associate Professor Maxwell,
Assistant Professors Lucas and Willard
Special Lecturer Harry E. Miller

A liberal education implies some systematic knowledge of the organization and functions of our economic and social order; to meet this need is the first aim of the department as at present constituted. This cultural objective, however, is not exclusive; that much of the work of the department may have a definite vocational bearing is quite obvious.

The courses in Economics are especially worthy of the attention of students looking forward to a business or professional career. These courses are intended to give the student an understanding of the economic structure of society and of its functioning, and also to train him in the critical analysis of economic problems. They aim primarily to prepare the student for the place of enlightened leadership which the community rightfully expects the college-bred man to assume, and to fit him for grappling with the broader problems that confront the business man. The department recognizes, too, the demand for the development of courses stressing the application of economic principles to business technique with the objective of fitting liberally trained men for capable functioning in the business world; expansion in this direction has already begun and will continue in the immediate future as rapidly as facilities permit.

The courses in Sociology provide training in the fundamental concepts and methods of the science and lead the student toward the solution of problems faced by every citizen in his economic and social relationships. These courses attempt not only to give a knowledge of the science, but aim to be broadly cultural in content. Incidentally, they aim to stimulate appreciation by the student of the work of scientists and specialists in many fields, and of their contributions to problems of human welfare. Moreover, the courses are being developed and extended to meet the needs of students in applied fields. Particularly, students of education and social work will find offerings adapted to their interests.

Economics and Sociology are most happily associated, whether as major or minor subjects, with work in the departments of History and International Relations, Geography and Geology in their more economic aspects, Psychology, and English. Other combinations are not undesirable. For example, one equipping himself for industrial Chemistry might well choose Economics for his minor subject; or, one whose major interest lies in the social sciences, particularly in the fields of research into statistical and business problems, will find courses in Mathematics highly desirable.

Economics 11 is a prerequisite to all other courses in Economics, with the possible exception of Economics 14a and 14b, and, under unusual circumstances, of Sociology 11. Sociology 11 is a prerequisite to further work in Sociology. Undergraduates majoring or minoring in ether branch of the department are urged to take Economics 11 in their Sophomore and Sociology 11 in their Junior year; only under unusual conditions should they postpone these introductory courses. Students who believe that they will major in the department are urged to take Economics 10 in their Freshman year.

#### GRADUATE WORK

The department regularly offers courses leading to the Master's and Doctor's degrees. Students expecting to enter upon advanced work should have creditably mastered basic courses in the field equivalent at least to the ordinary undergraduate major, *i.e.*, twenty-four semester hours; those whose preparation is inadequate should expect to make good the deficiency before proceeding to study for a higher degree.

A sufficient range of courses will be offered in cycles of two or

three years so that graduate students may be adequately prepared for candidacy for the doctorate in this department. The classification of courses as undergraduate, intermediate, and graduate is necessarily an elastic one. Graduate students electing courses in the undergraduate category will be required to do additional work; undergraduate students in courses of the intermediate group will be expected to do work of substantially graduate caliber.

Fellowships, scholarships, and other minor aids are available to students in the department (see catalogue, page 52;) also a limited number of assistantships, carrying a modest stipend, are awarded to worthy students.

The attention of students in Economics and Sociology is directed also to closely allied courses offered in the Departments of Geography, Geology, History and International Relations, Mathematics and Psychology.

# COURSES IN ECONOMICS

# 1. Primarily for Undergraduates

10. Social Science Survey. A survey course, designed to introduce the student to the methods and materials of the social sciences, and to build up a background of understanding for later work in Economics, Sociology, or other social sciences. The course will treat briefly the outstanding features of the earlier stages of economic and social life, the evolution of modern capitalism, and more fully the conspicuous aspects of the present day industrial world, such as: mechanization of industry; specialization in production; division of labor; reliance on power; natural resources and raw materials; markets; population; migration of peoples; regional, national and international interdependence, rivalries, and conflicts; the place of the United States in the world economy; problems of national concern, such as group and "bloc" interests. immigration, racial issues, big business, the tariff; monopoly, competition, private property, inheritance; diffusion and concentration of wealth.

Indivisible course, designed especially for Freshmen; Sophomores may take the course with reduced credit.

Three hours, through the year. M. W. F., 9.
Omitted in 1928-29.
MR. BRANDENBURG

11. Principles of Economics. An introduction to the fundamental economic principles, together with a study of the practical application of these principles in the problems of American life. Prerequisite, Sophomore standing; Economics 10 desirable. Indivisible course.

Three hours, through the year. M. W. F., 10.

Mr. Lucas

13. Money, Banking, and the Business Cycle. The principles of money and banking, with special reference to their functions in the present economic organization of society. History of money and banking in the United States and Western Europe. The Federal Reserve System will be considered in some detail. Foreign exchange, organized speculation in its relation to the money market, and the business cycle are included in the subject matter of the course. Prerequisite, Economics 11. Graduate students registering in this course may receive credit by doing additional work. Indivisible course.

Three hours, through the year. M. W. F., 10.

Omitted in 1928-29.

MR. MAXWELL

14a. Economic History of Western Europe. The development of European industry and commerce since the Industrial Revolution. This course may, with the consent of the instructor, be elected concurrently with Economics 11.

Three hours, first semester. M. W. F., 9.

To be omitted in 1929-30.

Mr. Maxwell

14b. Economic History of the United States. The economic progress of the United States from the Colonial period to the present. Such topics as the following will be discussed: economic life in the colonies; the development of agriculture and manufactures; changes in the forms of transportation; domestic and foreign commerce; tariff policy; banking, currency, and public finance; problems of industrial combination. This course may, with the consent of the instructor, be elected concurrently with Economics 11.

Three hours, second semester. M. W. F., 9.
To be omitted in 1929-30.

Mr. Maxwell

15a. Public Finance. A study of the principles of public expenditures, revenues, and debts, with particular reference to American conditions. Prerequisite, Economics 11. Graduate students registering in this course may receive credit by doing additional work.

Three hours, first semester. M. W. F., 9.

Omitted 1928-29.

Mr. Maxwell

16. Statistics. Methods of collecting, utilizing, and presenting statistical data with special reference to economic statistics. Text-books, lectures, and problem work. Prerequisite, Economics 11. A laboratory period will be required.

Three hours, through the year. M. W. F., 10.

Mr. Maxwell

17a. International Trade and International Finance. This course will acquaint the student with the nature and theoretical basis of foreign trade. A thorough analysis will be made of the principles underlying the international movement of goods. The foreign trade of the United States, its effects on our economic and social life, the channels of trade, methods of ocean transportation, the financing of foreign trade with emphasis on foreign exchange, government promotion and interference with trade with especial attention paid to protective tariffs are some of the more important problems to be discussed.

Prerequisite, Economics 11. It is desirable that students should also have completed Economics 13.

Three hours, first semester. Tu. Th. S., 10.

To be given as 27a in 1929-30.

Mr. Lucas

117b. Principles of Accounting. The organization and use of financial records, theory of debits and credits, construction and interpretation of the main financial statements, proper treatment of reserves and surplus, accounting for depreciation, handling intangibles, and other special problems. A two-hour laboratory period will be required. Prerequisite, Economics 11.

Three hours, second semester. Tu. Th., 10; Th., 2-4.

To be omitted in 1929-30.

Mr. Lucas

18a. Business Organization. This course, together with Economics 117b, 18b, and 29b, is designed to give the student

a two-year program of studies in the business aspects of economics. It discusses the evolution and forms of business and industrial organization; the proper organization from the standpoint of management as well as from the standpoint of the public at large; the integration and combination of business units. It serves as an introduction to the problems relating to the financial policies of corporations. Prerequisite, Economics 11.

Three hours, first semester. Tu. Th. S., 10.

Omitted in 1928-29.

Mr. Lucas

18b. Business Finance. This course is virtually a continuation of Economics 18a. It discusses in detail the problem of the formation and capitalization of corporations, promotion, underwriting, receivership, failure and reorganization, and the proper administration of income. The relation of government to business is also considered. Prerequisites, Economics 11 and 18a.

Three hours, second semester. Tu. Th. S., 10.

Omitted in 1928-29.

MR. LUCAS

19b. Economics of Transportation. History and present status of rail, water, and highway transport; theories of ratemaking; problems of intercorporate relationship, public regulation, government operation, and chief problems of the present. Prerequisite, Economics 11.

Three hours, second semester. Tu. Th. S., 9.

Omitted in 1928-29.

Mr. Lucas

2. For Graduate Students and Advanced Undergraduates

21a. Current Financial Problems.

One hour, first semester. S., 11.

MR. MILLER

22. Labor Problems. A study of labor organizations; the aspects of labor questions as reflected in labor legislation; the labor of women and children or other special classes; minimum wage; social insurance; employers' associations; the selection and training of workers; labor turn-over; welfare work; shop committees; profit-sharing; and similar questions. Prerequisites, Economics 11 and 14b.

Three hours, through the year. M. W. F., 11.

Omitted in 1928-29.

Mr. Brandenburg

210b. Economic and Social Reform. The historical and economic background of reform movements; socialism as a criticism of the system of the classical economists and of existing institutions, as a theory of social progress, and as a program of social reform. Prerequisite, Economics 11 and 14a or 14b.

Three hours, second semester. M. W. F., 9.

To be omitted in 1929-30. Mr. Brandenburg

23b. Recent Monetary and Financial Problems. This course will deal with important developments occasioned by the War in the monetary, banking and fiscal systems of the principal European countries and the United States. The relationship between these changes and government finance will receive attention together with recent proposals for monetary reform. Reports and a thesis will be required. Prerequisites, Economics 11 and other courses prescribed by instructor.

Three hours, second semester. M. W. F., 10.

Omitted in 1928-29.

Mr. Maxwell

25b. Problems in Public Finance. Certain important financial questions, relating particularly to the United States, will be examined in more detail than is possible in Economics 15a. An historical survey of federal finance will be made with stress put upon recent developments. State and municipal finance will receive some attention. Reports and a thesis will be required. Prerequisites, Economics 11 and 15a.

Three hours, second semester. M. W. F., 9.

Omitted in 1928-29.

Mr. Maxwell

- 26a. Business Cycles. This course will deal with the various theories purporting to explain the business cycle, the devices by which cyclical fluctuations can be foreseen and modified, and the effects of the cycle upon speculation, production and money markets. An historical examination of price movements and of the major crises in the United States will be attempted. Reports and a thesis will be required. Prerequisites, Economics 11 and 16b. Not to be offered before 1930-31.
  - 27a. International Trade and Finance. See Economics 17a.
- 27b. Foreign Trade Practice. A continuation of Economics 27a, with emphasis on practical problems of foreign trade. The

technique of importing and exporting, foreign currencies, credits and banking practices, national customs and laws which promote or hinder trade development, governmental policies toward foreign trade, and national monopolies. Prerequisite, Economics 27a.

Three hours, second semester.

Omitted in 1928-29. To be omitted in 1929-30. Mr. Lucas

28. Research in Selected Economic Problems. The work in this course will consist of the first hand analysis of important problems connected with the production and marketing of goods. Sufficient text-book work and formal class-room discussion will be given to furnish the student with the proper background.

Most of the work, however, will consist of independent research under the direction of the instructor in charge. The problems to be analyzed will be chosen on the basis of the qualifications and interests of the student. Limited enrollment: consent of the instructor required.

Three hours, throughout the year. Tu. Th. S., 9.

Mr. Lucas.

# 3. PRIMARILY FOR GRADUATE STUDENTS

31. International Economic Policies. National tariff policies or other commercial restrictions with the international problems arising therefrom; national, private, or public establishments for the promotion of foreign trade; banking and credit facilities as factors in foreign trade; commercial treaties; navigation laws and general maritime policies of important commercial nations.

Two hours, through the year. M., 7-9.

Offered as a second semester course in 1928-29.

Mr. Brandenburg

32b. Land Economics. Land Economics is a study of those social and economic relationships arising out of man's dependence on land as a factor in the production of economic goods. The course studies the economic concept of land in contrast with the geographical and legal concepts; property in land and forms of land tenure; the economic characteristics of land as contrasted with the other factors of production; costs involved in adapting land to the needs of men; rent and income from land together

with an intensive study of the theory of rent as applied to various types of land; rural and urban tenancy and ownership; land taxation, land credit, land values, etc.

Three hours, second semester.

To be omitted in 1929-30.

Mr. Brandenburg

38a. History of Economic Thought to the End of the 18th Century. Study will be made of those periods important in the history of economic thought, starting with Greek antiquity. Somewhat less attention will be given to Roman antiquity and to the Middle Ages. In the modern period, the contributions of the Mercantilists, the Physiocrats and Adam Smith will be estimated.

Three hours, first semester. M. F., 3:30-5.

Omitted in 1928-29.

Mr. Maxwell

38b. Modern Economic Thought. The rise and development of modern schools of economic thought will be traced, starting with the English classical school and proceeding to examine the German historical school, the Austrian school, and the mathematical school. Some attempt will be made to treat recent developments. Attention will be given rather to the history of thought than to analytic criticism of specific doctrines.

Three hours, second semester. M. F., 3:30-5.

Omitted in 1928-29.

Mr. Maxwell

39. Value and Distribution. An advanced course in economic theory, involving a critical reading of Smith, Ricardo, J. S. Mill, and representative modern economists. Intended to trace the progress of economic thought since the early part of the nineteenth century and to train the student in critical consideration of economic principles. The course is conducted mainly by discussion in which the students are expected to take an active part. Indivisible course.

Three hours, through the year. M. F., 4. To be omitted in 1929-30.

Mr. Maxwell

311. Seminar in Economics and Sociology. Round-table meetings are held fortnightly in the evening for presentation of the results of investigation by members of the Seminar. As occasion offers, other persons are invited to address the Seminar on

matters of general interest. All graduate students in the Department are expected to attend. Seniors majoring in Economics and Sociology are urged to do so.

Second and fourth Thursdays of each month at 7:30.

THE STAFF OF THE DEPARTMENT

# COURSES IN SOCIOLOGY

 Primarily for Undergraduates (See also Economics 10)

11. Introduction to Sociology. This course will afford familiarity with the materials of Sociology, knowledge of the scope of Social Science, and an insight into methods of studying society. It will review the chief concepts of the science, with illustrations from the literature of the subject and the phenomena of contemporary social life. It will offer a brief introduction to social problems, with assigned topics for investigation. Prerequisite, Junior standing. Sociology 11, or its equivalent, is a prerequisite to all other courses in Sociology.

Indivisible course.

Three hours, through the year. Tu. Th. S., 8.

MR. WILLARD

- 2. For Graduate Students and Advanced Undergraduates
  (See also Economics 210b and Economics 22)
- 23a. Principles of Social Work. A review of the special fields of social work; standards of professional competency in each; curricula and methods of training in social work; the socialization of professions and occupations and their contributions to social work; the application of science to the fields of social work; problems and projects for the study of social work by the "case" method. The local field of social work will supply the laboratory materials for the course. To be offered in 1928-29 and alternate years thereafter. Prerequisite, Sociology 11.

Three hours, first semester.

Omitted in 1928-29 and to be omitted in 1929-30.

Mr. WILLARD

23b. Organization and Administration of Social Work. This course offers a survey of the fields of both volunteer and public social work; the history, services, organization, and administration of agencies in each; a study of some of the recent programs of volunteer associations; relations of public and private effort; all based upon a summary of the social problems faced by welfare agencies. It includes problems of social policy and administrative efficiency in the control, supervision, coordination, standardization and development of public and volunteer work. Local institutions and agencies will supply the laboratory materials for this course. Prerequisite, Sociology 23a.

Three hours, second semester.

Omitted in 1928-29 and to be omitted in 1929-30.

Mr. WILLARD

25b. Educational Sociology. The major content of this course will be: social principles of education; movements for the reconstruction of the curriculum; socialization of administration and pedagogy; evaluation of education through surveys; social factors in the composition of the teaching force and the pupil population; the place of the school in larger communal relations. Prerequisite, Sociology 11.

Three hours, second semester. Tu. Th. S., 10. Omitted in 1928-29. To be offered in 1929-30. Mr. WILLARD

26a. Contemporary Culture and Cultural Change. This course will include a definition of the cultural aspects of contemporary life, the history and development of culture, and the analysis of contemporary cultural phenomena, with special reference to sociological interpretation.

Three hours, first semester. Tu. Th. S., 10. To be offered in 1929-30.

Mr. WILLARD

27. Regional Sociology. A survey and analysis of the community (city and county) of Worcester, including sociological interpretations of the life of the people, their institutions and industries. Special inquiries into particular community problems. Original field studies required. Prerequisite, Sociology 11.

Divisible course.

Three hours, through the year. Laboratory Th., 2-6, and an additional class hour to be arranged.

To be omitted in 1929-30.

Mr. WILLARD

28. Population Problems. A review of the biological theories of society; modes of limitation and selection of population; vital statistics and population trends; a survey of resources for the support of population; past and prospective modes of control; influence of selective factors on welfare; problems of race, family, and general progress associated with population changes. Prerequisite, Sociology 11. To be offered in 1928-29, and alternate years thereafter.

Three hours, through the year. T. Th. S., 10.

To be omitted in 1929-30.

Mr. Willard

29. Survey of the Literature of Sociology. A course for graduate and selected undergraduate students of the social sciences. The course will include a survey of periodical literature and other literature appearing during the year. Important materials will be summarized and discussed in seminar.

Two hours, through the year, to be arranged. New course to be offered in 1929-30.

Mr. WILLARD

# 3. Primarily for Graduate Students (See also Economics 311)

31. Seminar in Social Work. Intended for specially qualified graduate students and those in responsible social work positions in the community. The seminar will be devoted to problems of family welfare and community work. The exact content of the course is determined from year to year by the major interests, abilities, and the training and experience of students electing. Prerequisite, graduate standing or equivalent experiences in practical work, to be determined by conference with the instructor.

Two hours, through the year. F. 4-6.

Mr. WILLARD

**32.** Sociology Seminar. Intended for students of graduate standing working on research projects.

Two hours, through the year. Hours to be arranged.

MR. WILLARD

# DEPARTMENT OF ENGLISH

Professor Ames, Professor Dodd, Assistant Professor Baker

Beginning with the year 1929-30, the requirement of English 14 for sophomores has been abolished. For it has been substituted a requirement for all students to be completed either the Freshman or the Sophomore year, of a course in the Appreciation of the Fine Arts,

Prescribed work in English consists of English 11, required of all Freshmen, and 3 semester hours of English literature, required of all students to be completed by the end of the junior year. A *major* in English consists of twenty-four semester hours, including English 11; a *minor*, of eighteen semester hours, including English 11.

# THE PRENTISS CHENEY HOYT PRIZE IN POETRY

A prize of fifteen dollars is awarded annually by the Department for the best undergraduate verse. This is the interest on a fund established by the alumni as a memorial to Prentiss Cheney Hoyt, Professor of English at Clark University from 1909 to 1920.

# COURSES IN ENGLISH

# 1. PRIMARILY FOR UNDERGRADUATES

11. English Composition. The course aims through constant practice in composition and the reading of literature to give the student greater facility in written expression.

Required of Freshmen.

Three hours, through the year. M.W.F., 10 and T.Th.S., 9.
MR. DODD AND MR. BAKER

12a. Voice and Reading. Development of the public voice and the conversational tone, with special drill for individual difficulties. Selections and impromptu speeches for practice in voice and platform deportment.

Open to Freshmen.

Three hours, first semester. W. F., 12 and a third hour to be arranged.

Omitted in 1928-29, to be omitted in 1929-30.

MR. BAKER

12b. Public Speaking.—Theory and practice in the composition and delivery of various forms of extemporaneous address.

Open to Freshmen.

Three hours, second semester. W. F., 12, and afternoon hour to be arranged.

MR. BAKER

13. Shakespeare. A general survey of Shakespeare's works, including the reading and class discussion of twenty plays. Prerequisite, English 11.

Three hours, second semester. M. W. F., 10. Omitted in 1928-29.

Mr. Ames

14a. English Composition. A course in expository writing, required of all Sophomores not exempted by high standing in English 11. Bi-weekly original essays, shorter themes and prescribed readings.

Three hours, first semester. Tu. Th. S., 10 and 11.

To be omitted in 1929-30.

Mr. Baker

15a. A Survey of English Literature. A course in English literature from its beginnings to the end of the seventeenth century. Prerequisite: English 11.

Three hours, second semester.

Mr. Ames

To be omitted in 1929-30.

16b. English Composition. Weekly themes in exposition and narration. Class criticism. Open to students who have attained high standing in English 11 or English 14a.

Three hours, second semester. M. W. F., 11

Mr. Baker

17a. English The Romantic Movement in English Literature. Prerequisite: English 11.

Three hours, first semester. Tu. Th. S., 9.

Omitted in 1928-29.

Mr. Ames

18a. The Bible. This course aims to stimulate an intelligent appreciation of the Bible as literature. It consists of an interpretation chiefly of the Old Testament, its history and epic, poetry and oratory, philosophy and prophecy. Prerequisite: English 11.

Three hours, first semester.. M. W. F., 10.

Omitted in 1928-29.

MR. AMES

19b. English Literature of the Eighteenth Century. Three hours, second semester. M. W. F., 10. To be omitted in 1929-30.

MR. AMES

110b. Nineteenth Century Poetry. A study of English poetry from Tennyson to Kipling. Prerequisite: English 11.

Three hours, second semester. Tu. Th. S. 9. Omitted in 1928-29.

Mr. Ames

111. American Literature. Readings in American Literature, from the Colonial period to the present day. The course may be elected for the year or for the first semester only. Open to Freshmen, with the approval of the instructor.

Three hours, through the year. Tu. Th. S., 12.

MR. AMES

112. The Modern Essay. A study of English and American essays from 1820 to the present day, with appropriate collateral reading in fiction. The course may be elected for the year or for the first semester only. Prerequisite: English 11.

Three hours, through the year. Tu. Th. S., 9. To be omitted in 1929-30.

Mr. Ames

113a. Modern English Drama. A study of contemporary English dramatists.

Open to Freshmen.

Three hours, first semester. Tu. Th. S., 10.

Omitted in 1928-29.

Mr. Dodd

114b. Elizabethan and Restoration Drama. A study of the plays written by Shakespeare's distinguished contemporaries and his successors of the Restoration.

Three hours, second semester. M. W. F., 9. Omitted in 1928-29.

Mr. Dodd

121b. Biography and Letters. A study of the biography, autobiography and correspondence of distinguished authors, to-

gether with painters and sculptors, from the eighteenth century to the present day. This course is open only to upper classmen, who are proficient in English.

Three hours, second semester. M. W. F., 9.

To be omitted in 1929-30.

Mr. Dodd

**122a. Modern Poetry.** A study, in representative contemporary poets, of the new tendencies in verse. For those wishing it opportunity is afforded for original verse composition.

Open only to upperclassmen who are proficient in English.

Three hours, first semester. Tu. Th. S., 10.

Mr. Dodd

123b. The 19th Century Novel in England. A study of the important novelists from Scott to Hardy. Open to Freshmen with the approval of the instructor.

Three hours, second semester. T. Th. S., 11,

To be offered in the first semester in 1929-30.

MR. BAKER

124b. American Drama. A study of the American drama from colonial times to the present day.

Open to Freshmen.

Three hours, second semester. Tu. Th. S. 10.

Omitted in 1928-29, to be omitted in 1929-30.

Mr. Dodd

**125b.** The Short Story. A study of representative short stories in English and American literature.

Open to Freshmen.

Thdee hours, second semester. Tu. Th. S., 10.

Omitted in 1928-29.

Mr. Dodd

126b. Modern Continental Drama. Contemporary drama: Norway, Russia, Germany, Austria, France, Spain and Italy. A companion course to Modern English Drama.

Three hours, second semester. Tu. Th. S., 10

To be omitted in 1929-30.

Mr. Dodd

10 THIS To animenter

1a. Fine Arts. A course in the appreciation of painting, sculpture and architecture. Illustrated lectures, assigned readings, field trips.

Three hours, second semester. M. W. F., 10. Mr. Dodd

## DEPARTMENT OF GEOGRAPHY

A complete statement of the aims and the scope of the courses in Geography and the related subjects, Physiography, Meteorology and Climatology, will be found in the announcement of the Graduate School of Geography on pages 63 to 71.

## DEPARTMENT OF GEOLOGY

Professor Little\*

## 1. Primarily for Undergraduates

12. General Geology. First semester. A study of the rocks which compose the earth's surface, the physical processes which act upon them, the internal forces which deform them, and the land forms which result from these modifications. Many of the practical applications are indicated. Except that the study of weather and climate is omitted, this course may be taken as an introductory course in Physiography.

Second semester. The geological history of the earth including the geography of the past and the evolution of life as interpreted through the study of rocks and fossils.

Three recitations and one laboratory period weekly. Occasional local field trips are taken. Attendance on one out-of-town field trip lasting two days or more may be required.

Divisible only in special cases with the approval of the Department.

Three hours, through the year.\*\* M. W. F., 8; Th., 2.

MR. LITTLE

121a. Crystallography, Mineralogy, and Blowpipe Analysis. A study of the geometrical forms assumed by minerals which are of assistance in their identification, a discussion of the

<sup>\*</sup>Absent on leave, second semester 1928-29.

<sup>\*\*</sup>Given in the first semester only, 1928-29.

physical properties of minerals which allow of their recognition, and the performance of simple chemical reactions, largely with dry reagents, which may supplement the preceding tests. Two class meetings and one laboratory period weekly.

Three hours, first semester. W. F., 11, and F., 2.
Omitted in 1928-29.

MR. LITTLE

122b. Economic Geology. A study of the origin of the deposits of useful minerals and a discussion of the world's more important occurrences. Special attention is given to the distribution and control among the various countries of non-metallic deposits such as coal, petroleum and phosphates; and deposits of metal such as iron, copper and gold. Elementary Chemistry and Geology are desirable. Two class meetings and one laboratory period weekly.

Three hours, second semester. Omitted in 1928-29.

MR. LITTLE

## DEPARTMENT OF GERMAN

PROFESSOR RANDOLPH, ASSISTANT PROFESSOR BOSSHARD

The Department of German provides the necessary courses for those who wish to take German in partial satisfaction of the general requirements in foreign language (see page 47), and through the alternation in successive years of the courses beyond the second year, which are open to men who have had either two or three years of German in college, provides opportunity also for those who wish to take this language as a major. A major in German consists of at least twenty-four semester hours selected from the courses announced here.

German 11 offers to those who have not previously studied German an opportunity to begin that language in college. German 12 provides a means of meeting the requirements of a course of second year college grade in foreign language. A full year course or two half-courses with numbers above 12 should be taken by those who plan to offer German in fulfillment of the requirement of three years' credit in some one foreign language.

## COURSES IN GERMAN

## 1. Primarily for Undergraduates

11. Elementary German. Drill in pronunciation and grammar; composition; reading of easy prose.

Divisible only in special cases with the approval of the Depart-

ment.

Open to Freshmen.

Three hours, through the year. M. W. F., 8 and 9.

Mr. Bosshard

12. Second Year German. Review of grammar, with some oral or written translation from English into German; the reading of several easy pieces of modern prose. The course is a continuation of German 11.

Open to Freshmen.

Three hours, through the year. Tu. Th. S., 9 and 12.

Mr. Randolph

13. Advanced Reading and Composition. The prime object of the course is to develop further the ability to read with accuracy and ease. Two meetings a week are devoted to reading; the texts employed are not especially difficult, but the assignments are of considerable length. The works read are varied from year to year, and the course may be taken in successive years. The third meeting in the week is devoted to German composition.

German 12 or its equivalent is a prerequisite for this course.

Open to Freshmen.

Three hours, through the year. Tu. Th. S., 11. Omitted in 1928-29; to be offered in 1929-30.

Mr. RANDOLPH

14. Introduction to the Study of German Literature. Particular attention is paid to the writers of the classical period; such texts are read as Lessing's Minna von Barnhelm and Emilia Galotti, Schiller's Jungfrau von Orleans and Wilhelm Tell, and Goethe's Egmont and Hermann und Dorothea. Lectures treat the history of German literature in outline from the earliest times down to the end of the eighteenth century, and deal more fully with the lives, writings and influence of the great classicists whose works are studied.

German 12 or its equivalent is a prerequisite for this course. Open to Freshmen.

Three hours, through the year. Tu. Th. S., 11.

Mr. RANDOLPH

16. Rapid Reading and Composition; Scientific German. A course corresponding to German 13, and embodying the course in Scientific German formerly given separately. The chief aim of the course is to develop facility in reading.

For men not primarily interested in literature who desire to acquire skill in using German in their work in other fields.

Three hours, through the year. M. W. F., 11.

Mr. Bosshard

17b. Grillparzer and Hebbel. German literature in the first half of the nineteenth century, with particular attention to the drama. The aims and methods of the course are similar to those of German 14.

German 12 or its equivalent is a prerequisite for this course. Open to Freshmen.

Three hours, through the year. Tu. Th. S., 11.

Omitted in 1928-29.

Mr. RANDOLPH

18. Advanced Reading and Conversation. The course takes up through the medium of suitable German texts a variety of topics designed to acquaint the student with essential facts about Germany and the German people. About a third of each recitation hour is devoted to conversation in German. Open to students who have had at least three years of work in the language.

Three hours, through the year.

Omitted in 1928-29.

19. The German Novel. Lectures on the history and nature of the novel; the reading of a few modern novels in class; collateral reading and reports. In the beginning the lectures and reports are given in English, but in the second half year the course is conducted in German.

Three hours, through the year. M. F. W., 10.

Omitted in 1928-29.

Mr. Bosshard

191. Contemporary German Literature. Lectures, interpretations, reading in class, collateral reading and reports. In the beginning the course is conducted in English, but in the second semester in German.

Three hours, through the year. M. W. F., 11-12.

New course to be offered in 1929-30.

MR. BOSSHARD

## DEPARTMENT OF HISTORY AND INTERNATIONAL RELATIONS

Professor Blakeslee, Professor Dennis,\*Professor Hedges\*\*
Assistant Professor Lee, Assistant Professor Eaton§

## UNDERGRADUATE WORK

The aim of the department in its undergraduate work is to give in its several courses a broad knowledge of the more significant aspects of the growth of the leading countries of the world. This includes the study not only of the important facts, but more especially of the processes of development in government, diplomacy, society, business, religion, science, and education. The courses are not limited to a consideration of Europe and the United States, but include the progress and present-day conditions of the leading countries of South America, Asia, and Africa. While the work is designed primarily to give a cultural knowledge of general world affairs, many of the courses are of especial value to those who are preparing to teach, or to enter the field of law, theology, social service, or government.

Course 11, primarily for Freshmen, is open to members of all classes; courses 15, 16, 17 and 18 are open to Sophomores, Juniors and Seniors, although History 11 or its equivalent will normally be required as a prerequisite for courses 15, 16 and 18.

#### GRADUATE WORK

The distinctive feature of the graduate work is the emphasis it places upon the various aspects of International Relations. Without neglecting investigation in the economic, political, and social life of preceding centuries, it makes an especial study of the

<sup>\*</sup>Absent on leave, second semester 1928-29.

<sup>\*\*</sup>To be absent on leave 1929-30.

<sup>§</sup>In 1929-30.

problems and the difficulties constantly arising in the international relations and diplomacy of the family of states. The field includes not only the United States and the nations of Europe, but also the newer and rapidly developing states of Asia, Latin America, and Africa.

#### FELLOWSHIPS IN HISTORY AND INTERNATIONAL RELATIONS

A Fellowship in American History, known as the American Antiquarian Society Fellowship, has been established by members of the American Antiquarian Society. It has an annual value of three hundred dollars in addition to remission of tuition fees.

The subject of research chosen by the Fellow for his Doctor's dissertation should be selected within the field of American History before 1880, the period in which the Library of the American Antiquarian Society, located in Worcester, is of greatest assistance to historical investigators. In addition to the society's valuable manuscripts of the Colonial period, it has an unequalled collection of books printed in America in the early period and of American newspapers from 1660 to 1860.

Regular University Fellowships and Scholarships are also available for students in this department.

#### THE DOCTORATE

The various courses offered in the department are so arranged, in cycles of two or three years, that students working for their doctorate will be enabled to secure a full program each year. Those taking History as a major are advised to elect their minor either in Geography or in Economics.

A feature of the method of instruction in the department is the frequent informal conferences between instructor and student, and the Seminar method in many of the courses.

The following courses in related departments are closely connected with work in History, and may advantageously be taken to supplement major work in the Department of History and International Relations.

#### DEPARTMENT OF GEOGRAPHY

- 10a. Fundamentals of Geography.
- 14a. Economic Geography (Agricultural).
- 15b. Economic Geography (Industrial).

102b. Geography of North America.

104b. Geography of Europe.

243a. Economic Geography of South America.

27a. General Principles of Anthropogeography.

274a. Geography of Northwest Europe.

DEPARTMENT OF ECONOMICS AND SOCIOLOGY

14b. Economic History of the United States.

31. International Economic Policies.

DEPARTMENT OF PSYCHOLOGY

202. Social Psychology.

# COURSES IN HISTORY AND INTERNATIONAL RELATIONS

## 1. Primarily for Undergraduates

11. Introduction to the History of Europe. The course covers the period from the fall of Rome to the present time, and serves as a general introduction to further historical study. The aim is to give a clear and accurate picture of the life and of the great movements of the medieval and early modern period. Indivisible course.

Open to Freshmen.

Three hours, through the year. Tu., Th. S., 10.

MR. LEE

15a. History of England from the 15th Century to the Present. A general course. Lectures, textbooks, collateral reading and quizzes. The purpose is to discuss the life of Englishmen at home, in relation with the Continent, and in the Empire.

Three hours, through the year. M. W. F., 9.

Mr. Dennis

16. Europe Since 1815. A general survey of the history of continental Europe from the end of the Napoleonic period to the present time. Attention will be given to the development of democracy and nationalism, the growth of modern imperialism and the partition of Africa, as well as the industrial revolution and the consequent spread of Socialism. Emphasis will be laid on

the causes and course of the World War and on the present situation in Europe. History 11 or its equivalent is desirable as a prerequisite.

Divisible only in special cases with the approval of the Department.

Three hours, through the year. Tu. Th. S., 12. Omitted in 1928-29.

Mr. Lee

17. American History Since 1783. After a brief survey of the colonial beginnings of American History and the American Revolution, the course will treat carefully the period since 1783. Emphasis will be placed upon the newer points of view in the study and writing of American History.

Divisible only in special cases with the approval of the Department.

Three hours, through the year. Tu. Th. S., 9.

Mr. Hedges

18. A Survey of International Relations. The course will give a general survey of the whole field of international relations and furnish a foundation for further and more specialized work. It will consider the chief factors involved in this study, such as race, nationality, historical tradition, population, boundaries, economic resources, and imperialism; and present an outline of the important concrete problems of the world at the present time.

Three hours, through the year. M. W. F., 11.

Mr. Blakeslee

19b. France from the Renaissance to the Revolution. This course will attempt to present in greater detail than is possible in History 11, the development of political and social conditions which eventually led to the French Revolution. In addition, some attention will be given to French Foreign relations and French influence in European affairs. The work will be carried on by means of lectures, assigned readings, and written reports.

Three hours, second semester. T. Th. S., 11. Mr. Lee

- 2. For Graduate Students and Advanced Undergraduates.
- 21b. Selected Topics in Modern Diplomatic History. Lectures and research work in various fields and world diplomacy.

Among the topics which may be included are Anglo-French relations, the Near East, the diplomatic history of the Mediterranean basin, the partition of Africa, and Anglo-Russian relations.

Two hours, second semester. M. W., 11. MR. DENNIS Omitted in 1928-29.

22. The Pacific and the Far East. The course deals especially with China, Japan, Russia in Asia, and the islands of the Pacific, stressing foreign affairs, government and politics, and economic, industrial and commercial conditions. A careful study is made of the relations, diplomatic and commercial, with the United States.

Three hours, through the year. M. W. F., 9.

Mr. Blakeslee

23a. Central Europe in the 19th Century. This course is concerned chiefly with Germany and Austria-Hungary. After a few introductory lectures the problem of German unity is taken up in detail. The second semester is devoted to the treatment of German supremacy after 1870, to the economic development of the German Empire, and to the national movements as well as to the foreign policy of Austria-Hungary. Special attention is given to the present situation and problems of Central Europe.

Two hours, first semester. Tu., 3. Omitted in 1928-29.

MR. LEE

24b. The History of France and the Latin States of Europe in the Nineteenth Century. The general history of France, Italy and Spain, since the end of the Napoleonic Wars. The course will include the constitutional movement in France and Spain, the story of the Italian Risorgimento, the rise of the second French colonial Empire and the Italian colonial system, the industrialization of France and Italy, and finally the general Mediterranean questions as they were affected by the World War and by the peace settlement. The course presupposes a general knowledge of the history of the nineteenth century such as may be obtained from History 16.

MR. LEE

25a. British India. A survey of European rivalry in India, the work of the East India Company, the development of adminis-

tration by the crown, and the recent developments toward self-government. Economic relations with Europe, military history, the expansion of Indian relations with other parts of the world, immigration, and religious and revolutionary movements are among the topics considered.

Two hours, first semester. M. W. 11. Mr. Dennis Omitted in 1928-29.

26a. Napoleon Bonaparte. The career of Napoleon, with emphasis upon international relations, including colonial policy, and the influence of Napoleon on world politics.

Two hours, first semester. M. W., 4.

Mr. Dennis

27. Latin America. A survey of the history of the various Latin American countries is followed by a consideration of international diplomacy, political problems, systems of government, race questions, economic and industrial conditions. Emphasis is placed upon the relations, both in trade and diplomacy, with the United States. Present problems are stressed, such as the Monroe Doctrine, Pan-Americanism, the Mexican issue, and the American administration of Haiti and Santo Domingo.

Three hours, through the year. M. W. F., 10.

Omitted in 1928-29.

Mr. Blakeslee

28a. The Recent History of the British Empire. An analysis of the British Imperial Possessions, emphasizing the developments and problems of the last quarter of a century.

Two hours, first semester. M. W., 11. Omitted in 1928-29.

Mr. Dennis

29a. Russia and the Near East in the 19th Century. The aim of this course is not only to trace the development of Russia's policy in relation to the Near East Question, but to study the general problem of the decline of the Ottoman Empire and the rise of the Balkan States, as well as the growth of the revolutionary movement in Russia. The course of events since 1914—the Revolution and the Bolshevik régime in Russia, and the recent National revival in Turkey, will be particularly emphasized.

Three hours, first semester. Tu. Th. S., 11.

MR. LEE

211a. The Historical Geography of the United States. The course will consist of a study of the geographic factors in the development of the social, economic, political and institutional life of the American people from colonial times to the present. History 17 or its equivalent will normally be a prerequisite.

Three hours, first semester. M. W. F., 11. Omitted in 1928-29

Mr. Hedges

213. Constitutional History of the United States. In this course the Constitution will be treated as a growing organism, responsive to the changing political, social and economic conditions of the country. The course will begin with a discussion of the origins of the American Constitution. There will be careful discussion of the important cases which established basic principles of constitutional law. Important constitutional developments will be correlated with the changes in American life and society which called them into being.

Open to advanced undergraduates and graduates who have had a thorough college course in general American History.

Three hours, through the year. Tu. Th. S., 10.

Mr. Hedges

241a. The United States Since 1865. A synthesis of the political, social and economic forces in the development of the United States since the Civil War. The course will be developed by topics and emphasis will be placed upon interpretation rather than narration. A reasonable familiarity with the period will be assumed. Prerequisite: History 17 or its equivalent.

Three hours, Tu, Th. S., 10, first semester. Omitted in 1928-29.

Mr. Hedges

242b. American Colonial History to 1776. A study of the European background of American history, the expansion of European peoples into the New World, the various European Colonial systems, the struggle for Colonial supremacy in North America and the background and causes of the American Revolution. Prerequisite: History 17 or its equivalent.

Three hours, second semester. Tu. Th. S., at 10. Mr. Hedges Omitted in 1928-29.

## 3. Primarily for Graduate Students

31. International Law. A general course adapted for graduate students who will do a large amount of independent reading. The principles of international law are presented and then illustrated by recent and pending international controversies of a legal nature. Lectures, text books, class discussions, and the study of the important cases in standard collections.

Two hours, through the year. M. W., 3. MR. BLAKESLEE

32. Recent International Relations of the United States. A lecture and research course covering the period from the Civil War to the present, with emphasis upon American foreign policies during and since the World War. Especial consideration is given to the history and present status of American relations with Great Britain, Germany and France; the Monroe Doctrine, the Caribbean and the Open Door policies; and the rival doctrines of Isolation and International Co-operation.

Two hours, through the year. M. W., 3. Omitted in 1928-29.

**321. Selected Topics in Recent British History.** A research course based upon a study of source material. The fields of investigation will change from year to year.

Two hours, first semester. M. W., 3.

Mr. Dennis

331. European International Relations, 1870-1918. A study of the diplomatic history of Europe from the Congress of Berlin to the Peace of Versailles on the basis of the abundant source material recently published. Bismarck's system of alliances and the hegemony of Germany, the development of the Eastern question and the estrangement of Austria and Russia, the Franco-Russian Alliance, the growing rivalry of Germany and England, the Entente Cordiale and the diplomatic aspect of the World War are all studied.

Two hours, through the year. Th., 4-6. Omitted in 1928-29.

Mr. Lee

332a. Historical Bibliography and Criticism. A study in the methods of historical research and writing. Introductory lectures on the nature and aims of history and examination of the methods in criticizing and interpreting documents. Practice in synthesizing material and a survey of the various schools of historical writing from the time of Herodotus to the present day.

Two hours, first semester.

MR. LEE

333. Topics in the Recent and Contemporary History of Continental Europe. The course will consist chiefly of research by the individual student in problems confronting the European countries at the present day. Such questions as Fascism in Italy, the nationalist problems in the Succession States of the Austrian Empire, the whole organization of the Danube Basin, Republicanism and Democracy in Germany, Bolshevism, and the nationalist movement in Turkey will be taken up as well as some of the more strictly continental international problems, such as reparations and territorial questions.

Two hours, through the year. Omitted in 1928-29.

MR. LEE

342. The Influence of Westward Expansion in American Development. The westward movement from colonial times to the passing of the frontier will be discussed in detail. The influence of westward expansion in moulding American character and shaping the peculiar course of American history in the 19th century; the problems arising from the colonization of the west and the reaction of these problems upon national development will be considered. The adjustments made necessary by the passing of the frontier will also be emphasized.

Two hours, through the year. Tu., 4-6.

Mr. Hedges

- 351. Research in the International Relations of the United States.

  Mr. Blakeslee
- 352. Research in the International Relations of the Pacific and the Far East.

  MR. BLAKESLEE
- 353. Research in the History and International Relations of the British Empire.

  MR. DENNIS
- 354. Research in the History and International Relations of Continental Europe. MR. LEE
- 355. Research in the Political and Economic History of the United States.

  MR. HEDGES

36. Seminar. The students in the Department of History and International Relations meet one evening a week for the study of particular topics in international relations, the consideration of the results of investigation carried on in the Department, and for the review of book and magazine material of especial value. Each member is expected to present reports which then form the basis for general discussion.

In studying the problems arising out of the war the Seminar is fortunate in having at hand the excellent war collection of the University Library, one of the largest in the country, which already numbers between seven and eight thousand volumes.

Weekly, through the year. Tu., 7.

MESSRS. BLAKESLEE, DENNIS, HEDGES AND LEE

## DEPARTMENT OF MATHEMATICS

PROFESSOR WILLIAMS, ASSOCIATE PROFESSOR MELVILLE

The undergraduate courses are designed to furnish a practical knowledge of fundamental methods of Mathematics that will be useful in the affairs of life, in business, and in the pursuit of the sciences as well as to prepare students for more advanced work in Mathematics.

A major in Mathematics consists of twenty-four semester hours, including courses 12, 13 and 14; a minor consists of eighteen semester hours, including course 12.

Mathematics 10 or 11 is required in the freshmen year of all students who expect to elect a major in Division A.

#### MATERIAL FACILITIES

The Library is provided with the more important text-books, treatises, and memoirs on the various branches of Mathematics, as well as the principal journals and transactions of learned societies that are devoted to any considerable extent to Mathematics.

The Department possesses a good collection of models in addition to an adequate instrumental equipment for the work in applied mathematics.

## COURSES IN MATHEMATICS

## 1. Primarily for Undergraduates

10. Intermediate Course. For students who enter with two or more units of Mathematics and do not expect to major in Mathematics or Physics. Students who complete this course with a satisfactory record may enter course 11 at the beginning of the second semester of the following year.

Open to Freshmen.

Physicales

Three hours, through the year. M. W. F., 8. MR. MELVILLE

11. Introductory Course. For students with major or minor in Mathematics or Physics. Elements of plane Analytic Geometry, including the straight line; plane Trigonometry; elementary theory of equations including Horner's method and De Moivre's Theorem for complex numbers; elements of determinants; and elements of differential and integral calculus. "Unified" course.

Open to Freshmen.

Three hours, through the year. M. W. F., 9.

MR. WILLIAMS

12. Calculus and Analytic Geometry. Differential and integral calculus and Analytic Geometry, a continuation of course 11.

Three hours, through the year. M. M. F., 11.

Mr. WILLIAMS

13. Calculus and Analytic Geometry, Plane Curves and Three Dimensions. A continuation of course 12 with applications to solutions of problems.

Three hours, through the year. Tu. Th. S. 9.

MR. WILLIAMS

14. Differential Equations.

Three hours, through the year. Time to be arranged.

Mr. WILLIAMS

15. Modern Analysis and Modern Algebra. Special course for advanced students.

Three hours, through the year. Time arranged.

Mr. WILLIAMS

19a. Astronomy. Chiefly descriptive, the object being to make students acquainted with the main features of the heavens.

celestial phenomena and laws governing them, and the most important theories that have been devised to explain them.

Alternates with course 110a.

Open to Freshmen.

Three hours, first semester. To be arranged.

Omitted in 1928-29.

MR. WILLIAMS

110b. Elementary Surveying. Fundamental principles; field work with transit, level, sextant, compass, and chain; map making and map reading.

Alternates with course 19b.

Open to Freshmen who have had trigonometry.

Three hours, second semester.

Omitted in 1928-29.

Mr. WILLIAMS

113a. Mathematical Theory of Statistics. Introductory course for graduate students in Geography, Biology, Economics and Psychology.

Three hours, first semester.

Omitted in 1928-29.

Mr. WILLIAMS

## DEPARTMENT OF PHYSICS

PROFESSOR GODDARD, ASSISTANT PROFESSOR ROOPE.

The aim of the undergraduate work of this department is to give to students a knowledge of the principles which are at the basis of modern applications of science to human affairs. It is deemed equally desirable to impart a knowledge of the methods and results of modern physics which are influencing so profoundly our fundamental concepts, and without which no one may hope to be considered liberally educated. The Department aims also to fit students in the minimum of time with professional preparations for Chemistry, Meteorology and allied sciences, Medicine, Engineering and Science teaching, as well as for professional or graduate work in Physics.

The Department will be glad to discuss, with those desiring to follow Physics as a profession, the opportunities in teaching and in industrial laboratories, and to arrange programs of courses best suited to individual requirements.

For students majoring in Physics, the following sequence of courses is recommended:

Course	Year	Prezequisites Physics	Prerequisites Mathematics
11	First	None	None
14	Second	11	None
15	Second	11	12
13	Third	11	11
22 or 23	Third	11	12
23 or 22	Fourth	11	12
28	Fourth	11	12

Sequences for students not *majoring* in Physics are as follows: Physics as a *minor*: Courses 11, 14, and one or more of 15, 17, 22, 23, 28.

Pre-medical course: Course 11.

Major in Chemistry: Courses 11, 14, and 15, 23, or 28.

Major in Biology: Courses 11, 14, and 28.

Major in Meteorology and Climatology: Courses 11, 14 and 15.

## GRADUATE WORK

The Department is prepared to give work leading to the degree of Master of Arts in Physics, for those planning to teach Physics, to undertake research work in industrial and government laboratories, and also as a preparation for those planning to take more advanced degrees. For this work, emphasis is placed not only upon Mathematical Physics, but also upon the undertaking of an original research problem, for which work the laboratories and library provide unusual facilities.

In case the *minor* for graduate students is in Mathematics, courses may be arranged with the Mathematics Department, or a special course on applied Mathematics may be taken under the Physics Department, based on Mellor's *Higher Mathematics* for *Students of Chemistry and Physics*.

A course in Meterology through the year is given in the Department of Geography. More advanced work in Physics of the Air may be arranged through the cooperation of the departments of Physics and Geography.

#### COURSES IN PHYSICS

## 1. Primarily for Undergraduates

General Physics. This course gives a general knowledge of the principles of Physics, as applied in industry and in the household, and also of the newer developments of Physics, including the elementary theory of radio. Roentgen rays, and the electrical basis of matter. It is desirable for all students intending to specialize in Chemistry, Biology, Mathematics, Law, or Medicine, and is the natural starting point for those desiring to do further work in Physics. It may also be taken as a general science course by those not majoring in science. During the first semester, the work covers mechanics and heat, and during the second semester, electricity and magnetism, wave motion, sound, and light. The text-book is Duff's General Physics. Mathematics 11 is advised. but not required. Since this course consists of three lectures and recitations, and one laboratory period per week, it is generally accepted by medical schools as fulfilling the requirement of eight semester hours in Physics.

Divisible only in special cases with the approval of the Department.

Open to Freshmen.

Three hours, through the year. M. W. F., 10; W. or Th., 2.

Mr. Goddard

13. History of Physics. A conference course on the history of the various branches of Physics. Prerequisite: Physics 11. Three hours, through the year. M. W. F., 9.

Mr. Goddard

14. Mechanical and Electrical Measurements. During the first semester this course consists of electrical measurements, including inductance, capacity, and conduction, by various methods, together with advanced problems in optics. In the second semester the course consists of laboratory exercises in dyanmics, including kinetics of translation, angular momentum, the gyroscope, and elastic properties of materials, followed by advanced problems in heat.

Three hours, through the year. Tu. W. F., 2. Mr. ROOPE

15. Thermodynamics and Optics. The work of the first semester is in thermodynamics, including the thermal properties of the solid, liquid, and gaseous states, and the theory of heat engines. The second semester covers geometrical and physical optics, and includes work in practical photography. The respective text-books are *Heat for Advanced Students*, Edser, and *A Treatise on Light*, Houstoun. Prerequisite, Physics 11.

Three hours, through the year. M. W. F., 9. Mr. ROOPE

17. Advanced General Physics. Lectures and recitations. This course is intended for those desiring a more advanced presentation of mechanics, electricity, heat, and light than is afforded by Physics 11, but not desiring year courses in these special subjects. Although the treatments are less complete than in courses 22, 23, and 15, a good perspective of the subject of Physics may nevertheless be gained. Mathematics 12 must be taken before or with this course. Prerequisite, Physics 11.

Three hours, through the year. M. W. F., 11. Mr. Goddard To be omitted in 1929-30.

- 2. For Graduate Students and Advanced Undergraduates
- 22. Theoretical Mechanics. This course is a systematic presentation of theory by lectures and recitations together with the solution of problems. The work includes statics, kinematics and dynamics of translation and rotation of bodies, mechanical oscillations, and dimensional equations. The text-book is Seely and Ensign, *Analytical Mechanics for Engineers*. Mathematics 12 must be taken before or with this course.

Three hours, through the year. M. W. F., 8.
Omitted in 1928-29.
MR. (

Mr. Goddard

23. Theory of Electricity and Magnetism. This course treats the general principles of dynamo and motor design, high-frequency phenomena as involved in radio, radio-activity, and the electron theory of matter. The course is of particular importance to those intending to specialize in Physics, Mathematics, or Engineering. The prerequisites are Physics 11 and Mathematics 11; Mathematics 12 must be taken before or with this course. A

knowledge of differential equations is advised. The text-book is Starling's *Electricity and Magnetism*.

Three hours, through the year. M. W. F., 8.

To be omitted in 1929-30.

Mr. Goddard

28a. Laboratory Methods. A course in the methods of preparing and presenting the results of experiments, involving precision of measurement, method of least squares, mean value, logarithmic plotting, derivation of formulae from experimental data, mechanical integration and differentiation, vector analysis, and the preparation by each student of a report on at least one assigned topic that involves reference tables and literature. This course is recommended for students specializing in any of the sciences which involve laboratory work. Prerequisite, Physics 11.

Three hours, first semester. M. W. F., 10. Mr. Roope

34. Advanced Mechanics. This course includes vector analysis, the equations of Lagrange and Hamilton, the methods of Hamilton and Jacoby, and Newtonian and logarithmic potential functions, together with a discussion of applications to various branches of Physics. The motion of rigid bodies, the theory of moving axes, and the theory and application of the gyroscope are also treated.

Three hours, through the year. Tu. Th. F., 5. MR. GODDARD

35. Advanced Electricity and Magnetism. The theory of electricity and magnetism is treated from the classical and the modern viewpoints, and includes the theory of the electro-magnetic field, generalized impedance, electric waves, and recent developments.

Three hours, through the year.. M. Tu. F., 3. Mr. GODDARD

36. The Partial Differential Equations of Mathematical Physics. Included in this course are vector analysis, the methods of Cauchy and Fourier, developments in series, the methods of Green and Riemann-Volterra, normal functions, and integral equations.

Two hours, through the year.

Mr. Goddard

37. Research Work in Physics. Research work on an original problem in Physics. Required of candidates for the Master's degree.

Mr. Goddard

310. Seminar and Research Conference. A seminar on modern theories of Physics, together with conferences on current literature and on the researches in progress.

Once a week, through the year. Tu., 4-6.

THE STAFF OF THE DEPARTMENT

## DEPARTMENT OF PSYCHOLOGY\*

PROFESSOR MURCHISON, PROFESSOR HUNTER, PROFESSOR NAFE,\*\*
ASSOCIATE PROFESSOR JONES

## LABORATORY FACILITIES

The Psychological Laboratories occupy thirty-two rooms on the third floor of the Main Building of the University. These laboratories were established by G. Stanley Hall immediately after the founding of Clark University, and constituted the first adequately appointed and complete psychological laboratories in America. These laboratories, under the direction of Edmund C. Sanford and John W. Baird, increased rapidly in size and in research possibilities. The collection is rich in historical apparatus and is especially complete in the better types of chronoscopes, the Vernier chronoscope being invented and developed here by Edmund C. Sanford. The laboratories have an annual appropriation sufficient to provide for the purchase and manufacture of any apparatus that may be required for general and special investigations. The workshop contains an excellent equipment for the manufacture and repair of apparatus.

## LIBRARY FACILITIES

The library facilities for research in Psychology, Anthropology and Education are exceptional both in range and in quality. Approximately one-half of the entire Clark University Library consists of reference works in these fields. All the important psychological journals in the world, more than sixty in number, come regularly to the library.

<sup>\*</sup>The Department of Education and School Hygiene was merged with the Department of Psychology at the beginning of the year 1926-27.

\*\*To be absent on leave, second semester, 1929-30.

## FELLOWSHIPS, SCHOLARSHIPS AND ASSISTANTSHIPS

In addition to assistantships in psychology, a generous number of scholarships and fellowships are available from year to year ranging in value from \$150 to \$600.

#### Undergraduate Work

The department offers work in general elementary psychology, elementary experimental psychology, elementary educational psychology, and will offer such additional courses to undergraduates as will make possible a major in psychology.

## GRADUATE WORK

Admission. Admission to graduate work in Psychology, as in the case of other departments, is subject to the approval of the Graduate Board. However, the Graduate Board does not admit without the approval of the Department. Admission is open to those individuals who have been graduated from accredited institutions, and whose academic record gives promise of the successful conduct of graduate work. Admission is not open to those who have never had training in elementary Psychology.

**Courses.** Each graduate student in full residence in the University is required to carry a full schedule of courses, such courses to be selected with advice of the instructors concerned and with the approval of the Department. The courses in the department are planned so as to give each student working for an advanced degree such necessary training as courses can give:

The Master's Degree. The general university requirements for the master's degree are explained elsewhere in the catalogue. The department will supplement these requirements in individual cases where it seems wise to do so. Students hoping to become candidates for the master's degree, such degree to be conferred at some definite future time, should discuss the matter without delay.

The Doctor's Degree. Only superior graduate students are encouraged to become candidates for the doctor's degree. Not only is such a candidate required to obtain exact information concerning all the significant psychological methods of research, but he is also required to demonstrate actual ability to use one or more of these methods in original research on important problems. The

thesis problem should be agreed upon before the end of the second year of residence, and should be the chief occupation of the student during his final year in residence. A student will be unable to receive his degree in less than three years unless he comes credited with graduate work elsewhere.

Theses. In addition to the general university requirements concerning the preparation and delivery of theses, the department has a supplementary requirement of an additional copy of each thesis, to remain on file in the department.

## COURSES IN PSYCHOLOGY

## 1. Primarily for Undergraduates

11a. General Elementary Psychology. This course is an introductory course in elementary psychology, and is prerequisite for all the following courses in the department. Textbook, lectures and collateral reading.

Three hours, first semester. M. W. F. 2.

Mr. NAFE

Open to Freshmen.

12b. Experimental Psychology. This is more than an elementary course, Psychology 11a being prerequisite. The entire resources of the laboratory are available for this course. The students will be made familiar, by use, with the apparatus used in psychological investigations. This course or its equivalent is prerequisite to 21a, 22b, 23a and 24b and to all graduate work for advanced degrees.

Three hours, through the year. Tu. Th., 2. Mr. NAFE Open to Freshmen.

14a. Elementary Educational Psychology. A study of the dynamics behind conduct and of the interaction between these "drives" and school processes. Attention will be given to the nature versus nurture controversy. The bearing of factors of personality on school and after-school success will receive some attention.

In addition to the scheduled meetings, a third weekly meeting is to be arranged.

Three hours, first semester. Tu. Th., 12. Mr. Jones

15b. Individual Differences and Exceptional Children. A review will be given of the latest contributions to the problem of individual differences. Study will be made of various current policies in dealing with this problem in public and private schools. Some attention will be devoted to exceptionally bright and exceptionally dull children, and various methods past and present employed by schools in teaching such children will be examined.

In addition to the two scheduled meetings, a third weekly meeting is to be arranged.

Three hours, second semester. Tu. Th., 11. Additional hour to be arranged.

Mr. Jones

16a. Principles of Education. School's responsibilities in preserving the race heritage; education past and present as related to health, family life, economic life, recreation and religious life; functions and policies of the elementary school, the secondary school, and the college in view of the present social, political, and economic conditions of the United States; American education and world citizenship.

Three hours, first semester. M. W. F., 10. MR. JONES

17b. Philosophical and Historical Foundations of Modern Education. By assigned readings, reports, and discussions some of the concepts underlying modern educational policies and practices will be studied. By way of illustration frequent comparisons will be made between the present educational aims and procedures in the New World and those in some of the countries of the Near East.

Three hours, second semester. M. W. F., 10. MR. Jones

18b. Fields of Psychology. An introduction to the different fields of psychology, including Experimental, Social, Child, Abnormal, applied and other branches of the science. Also an introduction to statistical methods. Open to students who have completed Psychology 11a. Number limited.

Three hours, second semester. Tu. Th. S., 11.

Mr. Nafe and Student Assistants

2. For Graduate Students and Advanced Undergraduates 200a. Systematic Psychology. This course together with 201b, 203a, 204b offers a two-year course in which the semester

units are separable. It is a systematic study of the work that has been done in Experimental Psychology. 200a deals with vision and audition.

Three hours, first semester. M. W. F., 9. MR. NAFE

201b. Systematic Psychology. Smell, taste and touch. Three hours, second semester. M. W. F., 9. Mr. NAFE Alternate years.

202. Social Psychology. A systematic survey of the literature of social psychology, with special emphasis on such literature as is available concerning the psychology of society.

Two hours, through the year. Th., 4-6. MR. MURCHISON

203a. Systematic Psychology. Emotion, attention, perception, and idea in their systematic aspects.

Three hours, first semester. M. W. F., 9. Mr. NAFE Alternate years.

204b. Systematic Psychology. The position of association, memory, imagination, thought, action and volition in systems of psychology, especially in the structural system. The treatment of these subjects is historical as well as systematic. Little attention is given to the application of principles.

Three hours, second semester. M. W. F., 9. Mr. NAFE Omitted in 1928-29 and in alternate years.

206a. Animal Behavior. A study of animal behavior with particular reference to the vertebrates. Emphasis will be placed upon the topics of instinct, habit formation, sensory processes, and the higher adaptive forms of behavior. The course offers an introduction to the current theory of behaviorism. Laboratory work, by appointment, will occupy one-third of the course.

Three hours, first semester. M. W. F., 11. Mr. Hunter

207b. The Learning Process. A critical and experimental study of the chief problems of learning and memory. One-third of the course will be devoted to laboratory work at hours to be arranged.

Three hours, second semester. M. W. F., 11. MR. HUNTER

## 3. PRIMARILY FOR GRADUATE STUDENTS

301a. Seminar in the Principles of Psychology. A comparative study of systems of psychology with particular reference to structuralism, functionalism, and behaviorism.

Two hours, first semester. Tu., 11.

Mr. Hunter

302b. Seminar in the Principles of Psychology. A continuation of the first semester Seminar, but not necessarily preceded by it. The topics for discussion will be drawn from the whole field of theoretical psychology. Students may enroll in this seminar for several successive years.

Two hours, second semester. Tu., 11. Mr. Hunter

**304. Journal Club.** To be devoted to the study of selected topics in current Psychological literature. All students *majoring* in Psychology for advanced degrees are members of the Journal Club.

Through the year. W., 4.

Messrs. Murchison, Hunter, Nafe and Jones

- 305. Research. All students *majoring* in the Department of Psychology for advanced degrees will be expected to undertake a suitable research problem under the direction of Messrs. Murchison, Hunter, Nafe, or Jones.
- 310. Child Behavior. This course will consist of a critical examination of the literature bearing on the experimental investigation of child behavior.

Two hours, through the year. F., 4. Mr. Murchison

- 312. Advanced Experimental Psychology. Open only on consultation. The course consists of minor problems. The student will have an opportunity to demonstrate his laboratory ingenuity and technique.

  MR. NAFE
- 313a. Advanced Educational Psychology: Techniques of Quantitative Experimentation in Education. The purpose of the course will be to give practice in the use of some of the most valuable statistical methods. Among the topics that will receive attention are: variability; reliability; correlation, including contingency coefficients and biserial r; partial and multiple correlation; line of relation; correlation ratio; regression equations; and

methods of weighting. Students will be invited to submit problems arising in their own experimentation, and a great deal of the practice on the techniques will come through solutions to these real problems. In the class periods attention will be given not only to statistical measures but also to methods of setting up experiments.

Two hours, first semester. Tu., 4.

Mr. Jones

314b. Methods in Educational Measurement. General trends in the measurement of intelligence and school achievement during the last five years will be discussed briefly under the following headings: measurement and aims in education; measurement and methods in teaching; measurement in determining school policies; measurement in classification, diagnosis, and prognosis; reliability and validity in measurement. Much emphasis will be placed on the following: improvement of marking systems; making of local objective tests; process of standardization of examinations; methods whereby teachers may measure their own efficiency in instruction; techniques of experimentation available for teachers, principals and directors of bureaus of educational research; methods of conducting school surveys and of interpreting results; measurement in character and health education; unmeasurable factors in education.

Two hours, second semester. Tu., 4.

Mr. Jones

## DEPARTMENT OF ROMANCE LANGUAGES

PROFESSOR CHURCHMAN, ASSISTANT PROFESSOR ATWOOD

See the statement of the general requirement in foreign language, page 47, for all candidates for the A.B. degree.

As now organized, the French courses in this Department are planned with the following ends in view: French 11 and 12 are the basic language courses, in which it is the purpose to develop reading ability, with at least a beginning of writing and speaking; when possible a student should take the full twelve hours of this sort of work. To the student who has completed 12, courses 13 and 14 offer an option between a continuance of general language work and a course limited to translation and literature;

both may of course be taken. Those who wish to continue the study of literature after taking 14, will take the "General View," Course 114, which may be followed by the courses in which the literature of the 17th, 18th, 19th and 20th centuries is studied intensively (courses 15, 19, 16, 119); maturer students with the proper background may take 114 without having had 14, or may go directly from 14 to the Advanced Courses. Those interested primarily in the study of the language will take 13 and then 17, the latter being especially valuable for teachers of French.

A major in Romance Languages consists of at least twenty-four semester hours selected from the courses described below; but not more than twelve semester hours in elementary courses (French 11, Italian 11, and Spanish 11), may be counted in a major.

A typical major for a student who has had three years of French in the high school would include courses 13, 14, 114 and one of the intensive courses in literature (15, 19, 16, 119) or the Advanced Composition course (17). Those who have had less French would begin with French 12. A beginner would take 11, 12, 13 or 14 (or both), and 114. The attention of students intending to major in Romance Languages is called to the statement concerning the required courses in Greek or Latin, on page 47.

#### COURSES IN FRENCH

#### 1. Primarily for Undergraduates

11. For Beginners. Grammar, pronunciation, oral work, and composition, based on the Churchman's Phonetic Gateway to French and Cerf and Giese's Beginning French. For a proper orientation in aural-oral work, the phonetic approach is used, and oral exercises are utilized throughout as a basis for speaking ability and for the general language drill. But the main purpose of the course is to develop reading ability, Greenberg's French Silent Reader and the Smith-Greenleaf French Reader being used side by side with the purpose of developing both the cursory and the intensive types of reading. The three-phase method is used throughout, exercises being treated first as reading material,

secondly as material to be understood by the ear, and thirdly as material for constructive work in speaking and writing. Not divisible.

Open to Freshmen.

Three hours, through the year. M. W. F., 10.

Mr. Churchman

12. Intermediate. Reading of modern French, with grammar, composition, pronunciation, and oral exercises. Course 12 is a continuation of course 11, and is also open to students who have had two years of high school French. Grammar review and composition from Carnahan's French Review Grammar. Reading from such works as Halévy's un Mariage d'amour, Hugo's les Misérables, Labiche and Martin's le Voyage de M. Perrichon, France's le Crime de Sylvestre Bonnard.

Open to Freshmen.

Three hours, through the year. Tu. Th. S., 8. Mr. Atwood

13. Advanced French. This course is designed to continue and supplement the language work of course 12; it is also open to students who have had three years of high school French. Since the parallel course (14) offers ample opportunity for the development of reading ability, the emphasis in this course is placed upon the spoken and written language. The major part of the early work is devoted to a careful study of pronunciation on a phonetic basis (Churchman and Hacker: First Phonetic French Course), and to a very rapid review of the elements of grammar in application to oral exercises. Immediately thereafter comes a survey of grammar and syntax in Fraser and Squair's French Grammar. Oral work in everyday French is continued through the year, with Ballard's Beginners French as the basic text.

Open to Freshmen.

Three hours, through the year. Tu. Th. S., 12.

Mr. Churchman

14. Readings in French Literature. This course is a modification of the course previously known as "French 14," the changes being designed to bring the initiation into French literature more clearly within the scope of students still without much literary background and in need of further training in accurate reading. It is normally open to students who have had three

years of French in the high school or French 12 in college, and is the natural course with which to begin the study of literature; mature students, however, who have some literary background and have done exceptional work in French 12 or 13, may take 114 without having had 14. The work of this course consists of the careful translation of selected masterpieces (entire), beginning with some recent author like Anatole France and working backward to the Classical authors of the 17th century. The object of the work will be to increase the student's capacity for intelligent reading of difficult French, to give him a first-hand acquaintance with certain literary masterpieces, and to lay a foundation for literary appreciation and criticism, with a clear grasp of a few of the essential facts of literary history. Parts of G. L. Strachey's Landmarks in French Literature will be studied, and a brief outline of all of French literature will be considered.

Open to Freshmen.

Three hours, through the year. Tu. Th. Sat., 12.

Mr. Atwood

114. General View of French Literature. This course is a modification of the course previously known as "French 14." its range and difficulty having been greatly increased by the change. It would ordinarily be preceded by the revised French 14, but it is open also to students with good literary background who have been in the upper guarter of French 12, or the upper half of French 13, or who have had at least four years of French in the high school. Its aim is to give a unified account of the development of French literature from the beginning to the present time. The early texts will be read in translation or in modernized French versions. Of the material since 1600, some will be carefully translated, and some read for the meaning only. The central text is Vreeland and Michaud's Anthology of French Prose and Poetry, which will be supplemented by the reading of several masterpieces entire and by selections from Harper's French Anthology (Sirich and Barton). The manual of literature to be used is French Literature in Outline by Churchman and Young; material from G. L. Strachey's Landmarks in French Literature and the Histoire illustrée de la littérature française by Abry, Audic and Crouzet will also be considered.

M., 4; W. F., 12.

Mr. Churchman

Omitted in 1928-29; to be given in 1929-30 and in alternate years thereafter.

Note. For admission to French 15, 16, 19, and 119, it is ordinarily expected that a student will have passed French 114, but students who have stood in the upper half of 14 may take the advanced courses in the years when 114 is not offered.

15. Literature of the Seventeenth Century. A large amount of reading from the works of Corneille, Racine, Molière, Boileau, La Fontaine, Descartes, Pascal, La Rochefoucauld, Bossuet, La Bruyère, Mme. de Sévigné. Selections from the minor authors contained in An Anthology of Seventeenth Century French Literature (Princeton University Press). Historical and critical survey of the literature of the period, based upon Abry, Audic and Crouzet's Histoire illustrée de la littérature française and the works of other critics. The main purpose of this course is to give the student a first-hand knowledge of the masterpieces of French classical literature, with a connected and critical knowledge of the literary history of the period. Few lectures, and no translating, the time in the class-room being devoted to discussion and reading in the original. For conditions of admission, see note above.

Three hours, through the year. M., 4; W. F., 12.

Omitted in 1928-29.

Mr. Atwood

16. Literature of the Nineteenth Century. Historical and critical survey, with wide reading from the most significant authors of the century. The spirit, method, and plan of the work are similar to those of course 15. After a discussion of the later eighteenth century and of the work of Chateaubriand and Madame de Staël, comes the intensive study of the literary masterpieces of the nineteenth century, especially lyric poetry, drama, and the novel, accompanied by a discussion of the facts and comment contained in the Abry, Audic and Crouzet Histoire illustrée de la littérature française and in the writings of other critics. Minor writers as found in the Vreeland-Michaud Anthology. Few if any lectures, and no translation. For conditions of admission to this course see note above.

Three hours, through the year. M., 4; W. F., 12.

Mr. Churchman

Omitted in 1928-29 and to be omitted in 1929-30.

17. Phonetics, Advanced Composition and Oral Work. Designed to provide teachers and other advanced students with a ready command of the spoken and written language. Review of the theory and practice of pronunciation upon a phonetic basis. Systematic study of grammar and syntax through a hasty survey of R. T. Holbrook's Living French, a thorough mastery of E. C. Armstrong's Syntax of the French Verb, and special study of selected topics by means of references to several standard authorities. Oral work of various sorts. Reports on important longer works in the field of phonetics. Open to students who have passed course 13 with credit, or who have done work equivalent in kind and amount.

Three hours, through the year. M., 4; 12 M. F.

To be omitted in 1929-30.

MR. CHURCHMAN

19. Literature of the Eighteenth Century. Historical and critical survey, with wide reading from the most significant authors of the century. Essential texts are Schinz' Eighteenth Century French Readings and Bremer-Goodyear's Eighteenth Century French Plays. Especial stress will be placed upon the social background and the importance of the century in the development of modern ideas. Constant use will be made of such manuals as Abry, Audic and Crouzet's Histoire illustrée de la littérature française. The spirit, method, and plan of the work are similar to those of course 15. Few if any lectures, and no translation. For conditions of admission see note above.

Three hours, through the year. M., 4; W. F., 12. Omitted in 1928-29 and to be offered in 1929-30. Mr. Atwood

119. Contemporary French Literature. A study of fiction, poetry and drama since about 1890, beginning with Anatole France, Bourget, and Rostand, and taking up representative works by modern authors since. Representative Contemporary French Lyrics (Delpit). Cunliffe and De Bacourt, French Literature During the Last Half Century, with reference to Lalou, Bédier-Hazard, etc. Reading and discussions; few if any lectures.

Three hours, through the year. M., 4; W. F., 12.

MR. CHURCHMAN

New course to be offered in 1931-32.

## COURSES IN SPANISH

## 1. Primarily for Undergraduates

11. Elementary Course. Imbert-Pinol Fundamentals of Spanish. Translation of simple prose. The first purpose of the course is to develop the ability to read, but a liberal use is made of oral and written exercises. Emphasis is divided between South America and Spain. Not divisible.

Open to Freshmen.

Three hours, through the year. M. W. F., 10. MR. ATWOOD

12. Intermediate Course. Combination of readings from Spanish literature with more advanced study of the language, oral and written. Review of the language in Crawford's First Book in Spanish. Reading of representative masterpieces, e. g., Don Quixote (selections), one modern novel, one play, short stories. Open to students who have passed course 11, or who have had two years of Spanish in the high school.

Open to Freshmen.

Three hours, through the year. Tu. Th. S., 9. Mr. Atwood

#### COURSES IN ITALIAN

#### 1. Primarily for Undergraduates

11. Elementary Course. The chief purpose of this course is to develop as rapidly as possible the ability to read Italian easily and accurately. As soon as a hasty survey of the elements of the language has provided the student with the necessary materials, reading is begun, and thereafter oral exercises, composition, and grammar are used chiefly as a means to greater facility in reading. Wilkins' First Italian Book; Grandgent's Italian Grammar (revised edition); Farina's Fra le corde d'un contrabasso; Fogazzaro's Pereat Rochus; Italian Short Stories (Wilkins and Altrocchi); Manzoni's I promessi sposi; possibly a play of Goldoni's. In the second semester either the Inferno or the Purgatorio of Dante is read. Not divisible.

Open to Freshmen.

Three hours, through the year.

Omitted in 1928-29.

Mr. Churchman

## DEGREES CONFERRED

## In the Calendar Year 1928

## BACHELOR OF ARTS

Raymond Carl Becker (with honor) William Olof Bloom, Jr. Willard Ellis Boyden Wells Elmer Carver George Bryant Chase Michael Antonio Ciano Everett William Coty Joseph Edward Cove William Albert Dexter Franklin Carl Erickson Wilfred Raphael Farrell Charles Winchester Felt George Lee Goss Thomas Joseph Hickey, Jr. John Philip Howard (with high honor) Robert Edward Johnson

Frederick Oscar Lehnert (with honor) Lloyd Charlton Jones Irving Kraemer John Bartle MacGeoch Moses Master Frederick Thomas Mills Ernest Gustaf Peterson Philip Bissell Plumb George Bradford Rich Theodore Rothman Quintin Marcellus Sanger Abraham Smith (with high honor) John Michael Spadola (with honor) John Joseph Sullivan Stanley Joseph Tatham Russell Tomajan Stanley Hartshorn Whiting Frank Woodman Wilder (with honor)

## BACHELOR OF EDUCATION

August 9, 1928

Virginia Mary Brown Mary Monica Callahan Florence Ellen Hall Olga Amelia Johnson Elizabeth Meriam Lincoln

Eino Fred Laakso

Theresa Margaret Murphy Ellen M. Howard Silk Cora Alice Stanton Irene Frances Wilmouth Warren Albro Yerkes

## MASTER OF ARTS

Gertrude Margaret Carey Edna Augusta Collamore Harold Hewitt Crawford Mason Nelson Crook

Floyd Franklin Cunningham Wayne Dennis Richard Burt Dow Henry Francis Eagan

## CARI FREDERICK Holzhauer

Clarence Henry Graham Charles Grove Haines Anna Hanratta Ralph Willard Hidy Frances Helen Hogan Kenneth Booth Holmes Huang Yü Jung Harriet Elizabeth Lee

# 152 Edith Elaine Hoyt

Robert Ward Leeper George William Lloyd Norman Leslie Munn Robert William Rucker George Wilhelm Schlesselman Robert Stone Osborne Bailey Tabor Muriel Emmie Wagenhauser

## DOCTOR OF PHILOSOPHY

Rollin Salisbury Atwood Rupen Eksergian Frank Arthur Geldard Leo Julius Meyer Julia Mary Shipman Willem VanRoyen

## SUMMARY

Bachelor	of	Arts	35	Master	of	Arts	2
Bachelor	of	Education	10	Doctor	of	Philosophy	4

The awarded late. Ele 8/9/29

# CLARK UNIVERSITY

# Final Assembly of the 1929 Summer School

August 8, 8:30 p.m.

I A Comedy

A Sunny Morning.

The brothers Alvarez Quintero

#### CHARACTERS

Doña Laura ..... MARGARET DEWAR Petra ..... Isabel Chardon Don Gonzalo ..... Edgar Britton Juanito George Corfield

Scene-In a retired part of a park in Madrid, Spain Time-The Present

II Conferring of degrees . . . President Atwood

# Bachelor of Education

Elizabeth Gertrude Curley Kathrine Mary Daley Wilhelmina Gerard Marion Veronica Harris Hilda Victoria Johnson

Margaret Veronica Kirby Estella Matteson x Walter Richard Pasanen Arvella Payne Ellen Frances Regan

Anthony Joseph West\*

\*Additional work to be completed.

teipl. deluvered Way 1930.

# Master of Arts

Economics & Sociology Paul Richard Swan

Geography - Edith May Fitton Lois Rebecca Keller Margaret Means

x du absention



# CLARK UNIVERSITY

#### WORCESTER MASSACHUSETTS

### SPECIAL CONVOCATION

# IN HONOR OF HIS EXCELLENCY PAUL W CLAUDEL AMBASSADOR FROM FRANCE TO THE UNITED STATES OF AMERICA

### APRIL 15 1929 AT 10:15 A M

### **PROGRAM**

ACADEMIC PROCESSION DR LORING H DODD University Marshall

INVOCATION REVEREND FATHER CLODOALD SERIEIX
PRESIDENT OF ASSUMPTION COLLEGE

OVERTURE SUPPE: BEAUTIFUL GALATEA TRUDA ORCHESTRA

PRESENTATION OF HIS EXCELLENCY
PAUL W CLAUDEL FOR THE DEGREE OF DOCTOR OF LETTERS
HONORIS CAUSA

DR PHILIP H CHURCHMAN
PROFESSOR OF ROMANCE
LANGUAGES AND LITERATURE

CONFERRING OF THE DEGREE PRESIDENT WALLACE W ATWOOD

RESPONSE HIS EXCELLENCY PAUL W CLAUDEL

RECESSIONAL MENDELSSOHN: FESTIVAL MARCH

The audience will kindly remain seated until the academic procession has passed out



# CLARK UNIVERSITY

# Annual Commencement

JUNE 17 1929 HALF PAST TEN

# Order of Exercises

Processional: Roman Carnival Mendelssohn

Duet for Flute and Clarinet: Minnehaha Barnard

Mr Thayer and Mr Valva

Invocation The Reverend Maxwell Savage DD
Pastor of the First Unitarian Church

Tastor of the Trist Chitarian Church

Commencement Address Stephen P Duggan Ph D LL D
Director of the Institute of

International Education

Statement by the President

Solo: O Paradis Sorti de l'Onde Meyerbeer
Wayne E Harrington '29

Wayne E Harrington '29

The Conferring of Degrees

Benediction

Recessional: National Emblem Bagley

The audience will kindly remain during the recessional

all degrees amended as holed 6/17/29.

Hartwell McClellan Turner Hughes.

Albert Joseph Kaneb .

Melvin Dow Kennedy. Arnold Herman Klingele .

Stuart Wellington Lippincott Frank Nelson Lukens

Abraham Kremer -

Fred Albert Mettler

Morris Pollock . James Quinn -

Ralph Raphael .

Robert Irving Slate -

-Walter Grant Stewart

Milton Kibbe Welson ·

Leroy Clifford Zumpfe .

Benjamin Smith -

Donald Alonzo Needham .

Andrew Theodore Ringoen. Allan Charles Scott-David Silverman

Edward Matthew Ten Broeck -

- Hamal Sherma "as of 4/17/39"-distorna deliva

6/14/30

William Arthur Niman -John Arthur O'Neill -

# Candidates for the Degree of Bachelor of Arts

Hobart Walker Adams

Irving Emerson Bailey.

Leonard Joseph Belanger. Isadore Chester Bland

-Moses Borvick\*

Section of the section of the

Reginald Arthur Briggs

~ Kingsland Adams Coffyn Randle Edwin Dahl

William Thomas Deeks-Bernard Francis Duesel ·

Albert LeRoy Farrell.

Francis Lawrence Fryer.
Adrian Armand Gaucher\* 1/2/30

Donald James Geary. Roland Edmond Gervais.

Nathan Goldman .

· Sydney Grace · -James Charles Haberman

- Wayne Everett Harrington. Raymond Porter Hartman\*

Walter Hastings Jr . Arthur Dexter Hubbard .

\*Additional work to be completed, degree not awarded 44/4 WITH HONOR

Everett Elven Backlin · Jacob Britton ·

Richard Wyman Butler

-Albert Sigfrid Carlson

Milton Harold Goldberg · George Frederick Kneller.

Fred Paul Luvisi

Lawrence Cutler Mansur Raymond Philip Shanahan

#### WITH HIGH HONOR

Owen Norton Hillman .

Abraham Levett .

### Candidates for the Degree of Master of Arts

Chemistry

Ernest Gustaf Peterson

John Michael Spadola

Stanley Hartshorn Whiting Frank Woodman Wilder

Economics and Sociology

Allen Eugene Andress Everett William Coty

Emily Dymond

Morris Eugene Garnsey Albert James Schwieger

Ella Lydia Vinal

Geography Eula Valina Avery

James Glasgow

VPaul Huffington Neva McDavitt

History and Int'l. Relations

Jose Lopez Baralt -Harold Everett Conrad

Joseph Edward Cove -

Charles Templeton Dix -

Josephine Ellen Healey

Lillian Jefts

\_\_ Lester Cline Lindley

Alfred Harvey Wheeler

Psychology 

mula could. 8/14/29

# Candidates for the Degree of Doctor of Philosophy

Geography
Carleton Payne Barnes
Ruth Emily Baugh
Otis Willard Freeman
Charles Gooze
Clarence Eugene Koeppe
Albert LaFleur
John Lorence Page
Moina Martha Prator

History and Int'l. Relations
Hartley William Cross
Rob Roy MacGregor
Eleanor Tupper

Psychology
P. Harry Ewert
Luberta Marie Harden
Dorothea Elizabeth Johannsen

# **Annual Collegiate Honors**

#### SENIORS

First Honors
Jacob Britton
Owen Norton Hillman
George Frederick Kneller
Abraham Levett

Second Honors Milton Harold Goldberg Lawrence Cutler Mansur Raymond Philip Shanahan

#### **JUNIORS**

First Honors Albert Clarence Erickson Frederick Marean Murdock Second Honors Michael Abelsky Michael Aloysius Donahue David Harold Jacobs John Howe Scott

#### SOPHOMORES

First Honors Louis Edward Shapiro Second Honors Wilfred Rutman Arick Joseph DeMarco, Jr. Edwin Johnson Stephen Thomas Riley

#### FRESHMEN

Second Honors Axel Verner Holmgren Morris Steinman Karl Chism Whitehouse

SEVENTH ANNUAL AWARD OF THE PRENTISS HOYT PRIZE IN POETRY

Stuart Lippincott, '29, for his poem "Beauty"

# REGISTER

Names of students are grouped in three lists, I, those who registered in either semester of 1928-29. II, those who attended the 1928 Summer School and III, extension students.

Explanation: S—scholar; F—fellow; HF—honorary fellow; numerals 29, 30, 31 and 32 are used to classify undergraduates; g—students formally admitted to the graduate division; s—special students; B—biology; Ch—chemistry; Ec—economics and sociology; G—geography; H—history and international relations; Ph—physics; Ps—psychology.

State omitted—Massachusetts; town omitted—Worcester; street names refer to streets unless otherwise indicated.

This list includes the names of all who have matriculated and registered. An asterisk (\*) indicates that the student has withdrawn from the University prior to March 1, 1929.

NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
Abelsky, Michael	30		63 Houghton
Adams, Carl John	32	Shrewsbury	
Adams, Hobart Walker	29	Natick	973 Main
Amsden, Festus Gilbert	30	Athol	13 Woodbine
Ambrose, Michael John	31		17 Fox
Anderson, Alton Rudolph	31		4 Halmstad
Andress, Allen E.	Ec S	Sioux City, Iowa	Estabrook Hall
Argoff, Irving	31		25 Providence
Arick, Wilfred Rutman	31		4 No. Woodford
*Ashus, Alfred	8		32 Marcy
Atwood, Robert Bruce	29	Winnetka, Illinois	35 Maywood
Avery, Eula V. (Mrs.)		Ann Arbor, Michigan	24 Louden
Backlin, Everett Elven	29		9 Euclid Ave.
Bailey, Irving Emerson	29		115 Elm
Baralt, Jose Lopez		San Juan, Porto Rico	Estabrook Hall
Barber, William Perry		Putnam, Conn.	35 Maywood
Barnes, Carleton Payne		Plainville, Conn.	87 Florence
Bartlett, Wallace Cameron		Winchendon	043.34.1
Baugh, Ruth E.		Pasadena, Calif.	941 Main
Bean, Myron Arthur	31		13 Hackfield Rd.
Beeber, Maxwell Samuel	31		14 Dover
Belakonis, John	31	D1.1	148 Millbury
Belanger, Leonard Joseph Belkin, Solomon	29	Brooklyn, N. Y.	973 Main
	31	Tanalas Vanasa	36 Granite 173 Woodland
Bell, Ruth Estella	Ec F	Topeka, Kansas Haverhill	Estabrook Hall
Berman, Warren William		Haverhill	16 Tirrell
Berkovich, Louis		Williamstown	Estabrook Hall
Biron, Archie Henry Bland, Isadore Chester		West Hartford, Conn.	
	32	west Haitibid, Conn.	31 Fox
Bloom, Sol Stuart *Bond, Richard Carlyle		Charlton Centre	01 101
Borvick, Moses		Brockton	12 Oberlin
Boyle, Thomas E.	Ph S	Diocaton	57 Sagamore Rd.
Brady, Edward William		Leominster	ov Eugamore and
Briggs, Reginald Arthur	29	2300121110001	7 Dewey
Brightman, Milton		Brookline	20 Gates
Brill, G. Meredith		Slaterville Springs, N.	
Brinck, Donald Monty		West Boylston	
Brissette, Armand J. Jr.		Webster	
Britton, Jacob		Leominster	12 Oberlin
Brown, Anthony Francis	29	Shrewsbury	
Brown, Arnold	31	•	49 Midland
Brown, Horace Alvin	31	Norway, Maine	78 Florence
Brown, Morris Yale	31	Meriden, Conn.	941 Main
Burgy, J. Herbert	G F	Monticello, Wis.	941 Main
Burke, James Francis	31		319 Cambridge
Burnett, Edward Leonard	8	North Brookfield	31 Clifton
Burrill, Meredith Frederic	G F	Augusta, Maine	6A Norwood
Butler, Richard Wyman	29		21 Preston
Campbell, Edna Fay		Chicago, Ill.	941 Main
Carleton, Thomas McMaster Carlson, Albert Sigfrid	32	Shrewsbury	7074 57 . 4
Carlson, Albert Sigfrid	Ec g		137A Eastern Ave.
Case, Gilbert Eugene	Ps g		26 Catherine
Catlin, Winton Irving	31	New Britain, Conn.	35 Maywood
Chase, Matthew Irving		Farnumsville	
*Cheka, Joseph S.	30	Darien, Conn.	

NAME CLASSIFI	CATION 30	HOME ADDRESS	WORCESTER ADDRESS
Christensen, Thomas Edison		TY 7 1 . TT	10 Lancaster
Chung, Samuel S. Clapp, John Norman	31	Honolulu, Hawaii	60 Florence
Clapp, John Norman	H S	Newtane, N. I.	166 Woodland
*Coffyn, Kingsland Adams	31	Newfane, N. Y. New York City Keene, N. H.	78 Florence
Colby, Kenneth Poole *Cole, Dale V.		Keene, N. H.	78 Florence
Consol Handle F	Hg	Farmington, West Va.	E-+-11- II-II
Conrad, Harold E. Corfield, George Sibley	H g	Attleboro	Estabrook Hall
Corneld, George Sibley	Ec S	Port Byron, N. Y.	9½ Hancock
Coty, Everett William Cove, Joseph E.	HS		301 Cambridge 5 Taft
Cove, Joseph E.	Ps F	W/:11:	16 Gates
Crook, Mason Nelson	30	Williamstown, W. Va. Boston	973 Main
Crosby, Kenneth Howard Cross, Hartley William Crowley, Paul Merrick	H F		
Cross, Harriey William	30	Minlaton, So. Australia	4 Mt. Pleasant
Consistent Florid F	G F	New Bedford	193 Lovell
Cunningham, Floyd F.	32	Flat Rock, Illinois Auburn	193 Lovell
Dahl Pandla Edmin	29		Estabrook Hall
Dani, Kandie Edwin	31	Brooklyn, N. Y.	Estabrook fiam
Cunningham, Hilton Dahl, Randle Edwin Davis, Harry Deeks, William Thomas	29	Providence, R. I.	
Dews, William Inomas	31	Whitinsville	138 Shrewsbury
DeMarco, Joseph Jr. Diamond, Joseph Diamond, Nathan			15 Loxwood
Diamond, Joseph	8	Truden M M	6 Loudon
Diamond, Nathan	32 30	Hudson, N. Y.	78 Florence
Dickey, Robert Ira	G UF	Merrimac	166 Woodland
Diettrich, Sigismond R.	G Ur	Budapest, Hungary	100 woodland
Dix, Charles T.	H g 30	Southville	10 D Ct-t- DJ
Dobie, Albert Joseph	30	William W II	12 Bay State Rd. 13 Woodbine
Donerty, Aired John		Wilton, N. H.	12 woodbine
Doherty, Alfred John *Dolan, Jeremiah J. Dolan, Robert Andrew	31	Marlboro	
Dolan, Robert Andrew	30	Marlboro	249 Chandler
Donabedian, Sarkis Melkon	32 30		161 Institute Rd.
Donanue, Michael Aloysius	30		107 Lovell
Dubois, Paul Norman	32		65 Stafford
Donabedian, Sarkis Melkon Donahue, Michael Aloysius Dubois, Paul Norman Duesel, Bernard Roak	29		14 Beaconsfield Rd.
Dymond, Emmy	Et g		
Easterling, Thomas Leslie	Ec g	Markey	15 Circuit Ave. Estabrook Hall
Eidam, Carl Louis Eisner, Chauncey Anicet Eliason, Chester Gabriel Erdurm, Colin Reid	8	Methuen .	Estabrook Haii
Elisner, Chauncey Anicet	31	Leominster	13 Woodbine
Eliason, Chester Gabriel	30	New Haven, Conn. New York, N. Y.	Estabrook Hall
Erdurm, Coin Reid	32	New lork, N. I.	120 Rodney
Erickson, Albert Clarence	30		315 Mill
Evans, Arthur George Farrell, Albert LeRoy	8		
Farrell, Albert Lekoy	29 30		6 Beaverbrook Pkwy. 57 South
Feinsilver, Oscar		Danidonas P T	
Fine, James		Providence, R. I.	Estabrook Hall 847 Main
Fisher, George Carroll	31	Brockton	
Fisher, Julius	31	IIila Obi-	38 Columbia
Fitton, Edith M.	6.3	Hamilton, Ohio	1 Maywood Place
Follow, James Francis	32		26 Dover 14 Melville
Foley, Jeremian A.	Hg	Ct. 11 11	
Forrest, Edward Lester	32		Estabrook Hall
Fisher, Gorge Carron Fisher, Julius Fitton, Edith M. Foley, James Francis Foley, Jeremiah A. Forrest, Edward Lester Fortin, Trevor Wilkins Foster, Edward Clark Foster, Malcolm Everett *Forball Harry	32	Oxford	78 Florence
Foster, Edward Clark	30	Haydenville	
*Forball Harry		Haydenville	Estabrook Hall
*Foxhall, Harry Freeman, Otis W.	29 C F	Shrewsbury Cheney Wash	12 Vincent
Freeman, Otis W. Frver, Francis L.	G F 29	Cheney, Wash.	42 Prescott
Cadaira Charles Rice		Brookfield	42 1 10800tt
Gadaire, Charles Rice Gadbois, Raymond William Galvin, Howard William	32	DIOGRACIA	14 Chrome
Calvin Howard William	32		146 Lincoln
Garber, Louis		New Haven, Conn.	16 Tirrell
Cardner Irving Arthur	32	Lowell	Fetabrook Hall
Gardner, Irving Arthur Garnsey, Morris E.	Ec S	Aurora, Mo.	Estabrook Hall Estabrook Hall
Caucher Adrian A	29	Southbridge	Listablook Hall
Gaucher, Adrian A. Geary, Donald James	29		
Collermon Louis Wanger	Ps F		919 Main
Gellerman, Louis Wanger Gervais, Roland Edmond	29	Seattle, Wash.	17 Hampden
*Cibbons, William Harold, Jr.	32	Westboro	11 Hampuca
Oldbons, william Haroid, Jr.		Brattleboro, Vt.	908 Main
Cissen May			
Gissen, Max	31		166 Woodland
Gissen, Max	31 G S	Normal, llinois	166 Woodland
Gissen, Max Glasgow, James Goldberg, Bernard Israel Goldberg, Milton Harold	31 G S 32	Normal, llinois	166 Woodland Estabrook Hall
Gissen, Max Glasgow, James Goldberg, Bernard Israel Goldberg, Milton Harold	31 G S 32 29	Normal, Ilinois Salem	166 Woodland
Gissen, Max Glasgow, James Goldberg, Bernard Israel Goldberg, Milton Harold	31 G S 32 29 31	Normal, llinois	166 Woodland Estabrook Hall 27 Marion Ave.
Gissen, Max Glasgow, James Goldberg, Bernard Israel Goldberg, Milton Harold	31 G S 32 29 31 29	Normal, Ilinois Salem	166 Woodland Estabrook Hall 27 Marion Ave. 9 Lamar Ave.
Gissen, Max Glasgow, James Goldberg, Bernard Israel Goldberg, Milton Harold	31 G S 32 29 31 29 30	Normal, Ilinois Salem Dorchester	166 Woodland Estabrook Hall 27 Marion Ave.  9 Lamar Ave. 6 Salford
Gissen, Max	31 G S 32 29 31 29 30	Normal, Ilinois Salem	166 Woodland Estabrook Hall 27 Marion Ave. 9 Lamar Ave.

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NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
Grace, Sydney	29		30 South Lenox
Graham, Clarence H.	Ps F		14 Lewis
Grossman, Maurice Benjamin		Greenfield	3 Loxwood
Habarman James Charles	29		16 Tirrell
Walland Abankan	30	noryoke	10 Hirrell
Haddad, Abraham			18 Wall
Haddad, William	31		18 Wall
Haberman, James Charles Haddad, Abraham Haddad, William Haines, C. Grove	H g 32		2 Clement
	32		85 Downing
Harden, Luberta Marie Harding, Kenneth Clarke Hargrove, Clinton Gorham	Ps F	Bremerton, Wash.	22 Downing
Harding, Kenneth Clarke	30	· ·	457 Park Ave.
Hargrove, Clinton Corham	32	Grafton	
Harrington, Wayne Everett	29		15½ Richards
Hartman Parmand Porton	29	Zuet Haven, Conn.	14 Lorch
Hartman, Raymond Porter Haslett, Melba	29		
Hasiett, Melba	8	3W7 1 .	103 Francis
Hastings, Walter, Jr. Hayward, Harold M.	29		
Hayward, Harold M.		Holden	
Healey, Josephine Ellen	H S		3 Maywood Pl.
Higginbottom, Arthur Raym	ond 32	Millbury	
Higginbottom, George	30	Millbury	
Higginbottom, Arthur Raym Higginbottom, George Higginbottom, James	32	Millbury	
Hildreth Samuel Curdon	8		6 Charlotte
Hillman Owen Norton		Edgartown	70 Downing
Hildreth, Samuel Gurdon Hillman, Owen Norton Hollis, Walter		Charlton	10 Downing
TI Jan Canal All		Chariton	Fatabasah II II
Holmes, Stanley Albert Holmgren, Axel Verner *Hopkins, Alfred Elmer Howard, Walter S. Hubbard, Arthur Dexter	8		Estabrook Hall
Holmgren, Axel Verner	32	0 . 1	34 Ames
*Hopkins, Alfred Elmer	31	Central Village, Conn.	•
Howard, Walter S.	32		90 Richmond Ave.
Hubbard, Arthur Dexter	29	Meriden, Conn. Normal, Illinois	35 Maywood
Huffington, Paul	GS	Normal, Illinois	131 Lovell
Hughes Hartwell M.T.	29	,	34 Clark
Hughes, Hartwell, M.T. Hynes, Edward A.		Springfield	766 Main
Tynes, Edward A.	8	Kvoto Japan	Estabrook Hall
Imanishi, Masao	Ec g	Kyoto, Japan	16 Tirrell
Jacobs, David Harold Jaeger, Alden Merriman Jefts, Lillian	30	Meriden, Conn.	
Jaeger, Alden Merriman	31	Torrington, Conn.	78 Florence
Jefts, Lillian	H g		100 Acushnet Ave.
*Jerome, William Joseph	Hg		20 Providence
Johannsen Dorothea Elizahe	th Ps F	Ithaca, N. Y.	4 Downing
Johnson, Clarence Gustaf Johnson, Edwin N. Johnson, Emil	32		4 Olga Avenue
Johnson Edwin N	31	Georgetown, Conn.	35 Maywood
Johnson, Edwin IV.		, , , , , , , , , , , , , , , , , , , ,	16 Everard
Johnson, Emn	H g		1 Hawthorne
Johnston, Philip William	21		602 Grafton
Kaneb, Albert Joseph	29		
Johnston, Emilip William Johnston, Philip William Kaneb, Albert Joseph Kaneb, George Dwight Kaplan, Daniel Katz, Irving	31	771. 11	602 Grafton
Kaplan, Daniel	32	Fitchburg	01 11
Katz, Irving	32	Meriden, Conn.	12 Oberlin
	GS	Cleveland Heights, O.	166 Woodland 17 Orchard
Kennedy, Melvin D.  *Kenworthy, Philip Warren  *Kilpatrick Bickard Hardi	29		17 Orchard
*Kenworthy, Philip Warren	29	Springfield	
			479 Lincoln
Klingele Arnold Herman	29		152 West
Klinglef Philip Alfred	31		201 Lincoln
Vanillan Cooper Frederick	29		164 Austin
Klingele, Arnold Herman Klinglof, Philip Alfred Kneller, George Frederick Knox, Arthur Randall, Jr.		Taunton	Estabrook Hall
Knox, Arthur Kandall, Jr.	32		166 Woodland
Koeppe, Clarence Eugene Korpi, Reino	G F	Nunda, N. Y.	18 Catherine
Korpi, Reino	31	T11	20 Gates
Kremer, Abraham	29	Lowell	20 Gates
Krutzky, Martin	31	Cohocton, N. Y.	1 Greenwood
Kropp, George Victor	8		37 Mill
Krutzky, Martin Kropp, George Victor Laakso, Wilho A.	31	So. Gardner	146 May
LaFleur, Albert	G F	Waterville, Maine	166 Woodland
LaFleur, Albert Larkin, Charles Adrian	30	Springdale, Conn.	
Lauf Paul A	32		1019 Pleasant
Lauf, Paul A.	31		103 Harrison
Leach, Morton Glenn	32	Shrewsbury	
Leneaux, Lincoln			16 Gates
Lebeaux, Lincoln Leeper, Robert Ward Legere, Edgar Homer	Ps F		20 04100
Legere, Edgar Homer	30	Leominster	106 Salem
Levenson, Samuel	30		1 Hotel Carlule
Levenson, Samuel Levett, Abraham	29		1 Hotel Carlyle
Levine, Robert	30	Brooklyn, N. Y.	64 Arthur
Timmimonth Stunet W	29		14 Sever
Lorch Arthur Robert	32	New York City	Estabrook Hall
Lukene Frank Nelson	29	Burlington, N. J.	35 Maywood
Tukona Philip W	32	Burlington, N. J.	Estabrook Hall
Tandaran Englan Charlette	H a		6 Farnum
Lundgren, Evelyn Charlotte	H g 29		51 Suffolk
Lorch, Arthur Robert Lukens, Frank Nelson Lukens, Philip W. Lundgren, Evelyn Charlotte Luvisi, Fred Paul	m. Jr. 31		6 Bath
MacDowall, Edward William	11, 11.		

Mahonsey, Rishard R.         30         2         Downing           Malmisted, Chester W.         32         31         2 Downing           Mandell, Alfred         32         31         Derby           Mansur, Laverence Gutler         32         31         Derby           Markerman, Maxwell Philip         32         31         Jubro           Matter, Raymond Joseph         He         Ruddin, Robert Wesley         4         Redin, Robert Wesley         4         Redin, Robert Wesley         4         Beaver           McKeler, Federick Albert         32         Brockton         4         Beaver         Estabrook Hall           Miller, Goorge Williams         Ec         Everett         32         Brockton         156         Woodland           Moore, Edgar August         30         2         Estabrook Hall         156         Woodland           Moore, Edgar August         30         30         156         Woodland         Hell         Hell         Perest         12 Paine         Estabrook Hall           Mann, Norman         L.         Ec         Estabrook         Hall         Hall         Hall         Hall         Hall         Hall         Hall         Hall         Hall         Hall <t< th=""><th>NAME</th><th>CLASSIFICATION</th><th>HOME ADDRESS</th><th>WORCESTER ADDRESS</th></t<>	NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
Malote, Alfred Mansur, Lawrence Cutler Marchant, William Everett Masternan, Maxwell Philip Matton, Arthur Emil McKeleve, Blake F. Medin, Robert Weley Metall, John William, Jr. Mettler, Frederick Albert Michaels, Arthur Miller, George Williams Moberg, Edgar August Moran, John Work, Conn. McGary, Revmond Joseph Mon, Norman L. McGary, Revmond Joseph More, Golar August Miller, George Williams More, Gonath Frederick Moran, John Joseph Munn, Norman L. McGary, Rederick Marean Nagge, Joseph William Nordatyon, John Joseph Munn, Norman L. Mrang, William Arthur Nordatrom, Joel Nicol, Everett Nordatrom, Joel Nordatrom,			HUME ADDRESS	
Marchant, Maxwell Philip Matstroma, Maxwell Philip Matton, Arthur Emil McDavitt, Newood Joseph McDavitt, Newood Joseph McGarry, Raymond Joseph McGarry	Malmstead, Chester W.	32		151 Vernon
Marchant, Maxwell Philip Matstroma, Maxwell Philip Matton, Arthur Emil McDavitt, Newood Joseph McDavitt, Newood Joseph McGarry, Raymond Joseph McGarry	Mandell, Alfred			31 Derby
Masterman, Maxwell Philip Matteon, Arthur Emil McGarry, Raymond Joseph McGarry, Raymond Joseph McKeleyey, Blake F. Metol, Robert Wesley Metol, Robert Wesley Metol, Arthur Miller, George Williams McGregor, Rob Roy Morer, Jonathan Frederick MacGregor, Rob Roy Moran, John Joseph Munn, Norman L. Murdock, Frederick Marean Munn, Norman L. Murdock, Frederick Marean Needham, Donald Alonzo Niman, William Needham, Donald Alonzo Northrup, Francis F. Nutting, Charles Herbert, Jr. Olds, John Bryant O'Noil, John Lesson Police, George Augustine Page, John Le Page, John Le Parker, Jolm Jackson Police, Charles Lester Police, Charles Lester Petrin, Havold Henry Petrin, Havold Henry Petrin, Charles Lester Philib, Richard Joseph Pitkin, Victor Ellsworth Police, Maurice Popple, Arthur Scoville Pullinger, Richard Colby Quinn, James Scott, John Howe Shanahan, Raymond Philip Schonning, Carl Elmer	Mansur, Lawrence Cutler			530 Park Ave.
Matton, Arthur Emil McGavry, Raymond Joseph McKelvey, Blaw Eeley McKelvey, Blaw Eeley Metcali, John William, Jr. Mettler, Frederick Albert Michaels, Arthur More, Jonathan Frederick MacGregor, Rob Roy Moren, John Joseph Munn, Norman L. Murdock, Frederick Marean Nagge, Joseph William Needham, Donald Alonzo Nicol, Everett Michaels, Arthur Murdock, Frederick MacGregor, Rob Roy Muran, John Joseph Munn, Norman L. Murdock, Frederick Marean Nagge, Joseph William Needham, Donald Alonzo Nicol, Everett Michaels, Arthur Murdock, Frederick MacGregor, Rob Roy Marn, John Joseph Murdock, Frederick MacGregor, Rob Roy Marn, John Joseph Munn, Villiam MacGregor, Marker Murdock, Frederick MacGregor, Rob Roy Marn, John Joseph Munn, Villiam MacGregor, Colorado Marsheld, Vt. Make Boylton Marsheldon, Patton, V. Make Boylton Marsheldon, Patton Marsheldon, Patton Marsheldon, Patton	Marchant, William Everett			11 Hudson
Matton, Arthur Emil McGavry, Raymond Joseph McKelvey, Blaw Eeley McKelvey, Blaw Eeley Metcali, John William, Jr. Mettler, Frederick Albert Michaels, Arthur More, Jonathan Frederick MacGregor, Rob Roy Moren, John Joseph Munn, Norman L. Murdock, Frederick Marean Nagge, Joseph William Needham, Donald Alonzo Nicol, Everett Michaels, Arthur Murdock, Frederick MacGregor, Rob Roy Muran, John Joseph Munn, Norman L. Murdock, Frederick Marean Nagge, Joseph William Needham, Donald Alonzo Nicol, Everett Michaels, Arthur Murdock, Frederick MacGregor, Rob Roy Marn, John Joseph Murdock, Frederick MacGregor, Rob Roy Marn, John Joseph Munn, Villiam MacGregor, Marker Murdock, Frederick MacGregor, Rob Roy Marn, John Joseph Munn, Villiam MacGregor, Colorado Marsheld, Vt. Make Boylton Marsheldon, Patton, V. Make Boylton Marsheldon, Patton Marsheldon, Patton Marsheldon, Patton	Masterman, Maxwell Philip			84 Fairfax Rd.
Medin, Robert Wesley, Metealf, John William, Jr. Michaels, Arthur Michaels, Arthur Albert Michaels, Arthur Albert Michaels, Arthur Milliam Arthur Novell, Mahlon Mackerow O'Toole, George Augustine Petrin, Harold Henry Petron, Crimet Bankell, Edward S. Raphael, Raiph Marshfield, Vt. 20 Lawrence Popple, Arthur Scoville Phothis, Richard Joseph Pitkin, Victor Ellsworth Pollock, Maurice Popple, Arthur Scoville Popple, Arthur Scoville Raphael, Raiph Marshfield, Vt. 20 Lawrence Popple, Arthur Scoville Raphael, Raiph Marshfield, Vt. 20 Lawrence Popple, Arthur Scoville Raphael, Raiph Marshfield, Vt. 20 Lawrence Popple, Arthur Scoville Raphael, Raiph Marshfield, Vt. 20 Lawrence Popple, Arthur Scoville Raphael, Raiph Marshfield, Vt. 20 Lawrence Popple, Arthur Scoville Raphael, Raiph Marshfield, Vt. 20 Lawrence Popple, Arthur Scoville Raphael, Raiph Marshfield, Vt. 20 Lawrence Popple, Arthur Scoville Raphael, Raiph Marshfield, Vt. 20 Lawrence Popple, Arthur Scoville Raphael, Raiph Marshfield, Vt. 20 Lawrence Popple, Arthur Scoville Raphael, Raiph Marshfield, Vt. 20 Lawrence Popple, Arthur Scoville Raphael, Raiph Marshfield, Vt. 20 Lawrence Popple, Arthur Scoville Raphael, Raiph Marshfield, Vt. 20 Lawrence Popple, Arthur Scoville Raphael, Raiph Marshfield, Vt. 20 Lawrence Popple, Arthur Scoville Raphael, Raiph Marshfield, Vt. 20 Lawrence Popple, Arthur Scoville Raphael, Raiph Marshfield, Vt. 20 Lawrence Popple, Arthur Scoville Raphael Raiph Marshfield, Vt. 20 Lawrence Popple, Arthur Scoville Raphael Raiph Marshfield, Vt. 20 Lawrence Popple, Arthur Marshfield, Vt.	Mattson, Arthur Emil		Danbury, Conn.	973 Main
Medin, Robert Wesley, Metealf, John William, Jr. Michaels, Arthur Michaels, Arthur Albert Michaels, Arthur Albert Michaels, Arthur Milliam Arthur Novell, Mahlon Mackerow O'Toole, George Augustine Petrin, Harold Henry Petron, Crimet Bankell, Edward S. Raphael, Raiph Marshfield, Vt. 20 Lawrence Popple, Arthur Scoville Phothis, Richard Joseph Pitkin, Victor Ellsworth Pollock, Maurice Popple, Arthur Scoville Popple, Arthur Scoville Raphael, Raiph Marshfield, Vt. 20 Lawrence Popple, Arthur Scoville Raphael, Raiph Marshfield, Vt. 20 Lawrence Popple, Arthur Scoville Raphael, Raiph Marshfield, Vt. 20 Lawrence Popple, Arthur Scoville Raphael, Raiph Marshfield, Vt. 20 Lawrence Popple, Arthur Scoville Raphael, Raiph Marshfield, Vt. 20 Lawrence Popple, Arthur Scoville Raphael, Raiph Marshfield, Vt. 20 Lawrence Popple, Arthur Scoville Raphael, Raiph Marshfield, Vt. 20 Lawrence Popple, Arthur Scoville Raphael, Raiph Marshfield, Vt. 20 Lawrence Popple, Arthur Scoville Raphael, Raiph Marshfield, Vt. 20 Lawrence Popple, Arthur Scoville Raphael, Raiph Marshfield, Vt. 20 Lawrence Popple, Arthur Scoville Raphael, Raiph Marshfield, Vt. 20 Lawrence Popple, Arthur Scoville Raphael, Raiph Marshfield, Vt. 20 Lawrence Popple, Arthur Scoville Raphael, Raiph Marshfield, Vt. 20 Lawrence Popple, Arthur Scoville Raphael, Raiph Marshfield, Vt. 20 Lawrence Popple, Arthur Scoville Raphael, Raiph Marshfield, Vt. 20 Lawrence Popple, Arthur Scoville Raphael Raiph Marshfield, Vt. 20 Lawrence Popple, Arthur Scoville Raphael Raiph Marshfield, Vt. 20 Lawrence Popple, Arthur Marshfield, Vt.	McDavitt, Neva	U 5	Puelond Ve	000 Main
Metealf, John William, Jr. Mettler, Frederick Albert Michaels, Arthur Miller, George Williams Moberg, Edgar August Moore, Jonathan Frederick MacGregor, Rob Roy Morore, Jonathan Frederick MacGregor, Rob Roy Morore, Jonathan Frederick Mardock, Frederick Marean Nagge, Joseph William Necham, Donald Alonxo Nicol, Everett Niman, William Arthur Nordstrom, Joel Northrup, Francis F. Nutting, Charles Herbert, Jr. Olds, John Bryant O'Noill, John Arthur O'Poliet, Charles Lester Parker, John Jackson Petringe, Leslie Walton Peltier, Charles Lester Perkins, Ernest Ralph Perrin, Harold Henry Petrin, Harold Henry Petrson, Ernest G. Phair, James Arthur Philbin, Richard Joseph Flikin, Victor Elisworth Philbin, Richard Golby Ouinn, James Petoson, Ernest Philbin, Richard Golby Ouinn, James Petoson, Ernest Ralph Read, Francis Arnold Richards, Kennetb Bancroft Riley, Stephen Thomas Ringoen, Andrew Theodore Rogers, Harry Rosoff, Leon Rogers, Harry Rosoff, Leon Raymond Philip Shapiro, Louis Edward Sathuraban, Steward, N. J. Stevenki, Arthur Sterent Ralph Read, Francis Rogers, Harry Rosoff, Leon Raymond Philip Shapiro, Louis Edward Sathuraban, Stevenki, Alland Sathuraban, Sathuraban Sathuraban, Sathuraban Sathuraban, Sathuraban Sathuraban, Sathuraban Sathuraban, Raymond Philip Shapiro, Louis Edward Sathuraban, John Sathuraban, Sathuraban Sathura	McKalvey Rlake F	не	Harleton Pa	
Michaels, Arthur Milliams Miller, George August Moore, John Joseph Munn, Norman L. Mardock, Frederick Marean Nagge, Joseph William Pediatron, Joel Northrup, Francis F. Nutting, Charles Herbert, Jr. Olds, John Bryant O'Neill, John Arthur O'Polle, George Augustine Page, John L. Parker, John Jackson Petring, Lesile Walton Peltier, Charles Lester Petrin, Harold Henry Petrins, Irmest Milliam Atthur Pelices, Maurice Philin, Viren Elloworth Pollock, Maurice Popple, Arthur Sconlon, Edward Francis Arnold Richards, Kenneth Bancroft Riley, Stephen Thomas Ringoen, Andrew Theodore Rogers, Harry Rosoff, Leon Schonning, Carl Elmer Schonning, Carl El	Medin Robert Wesley		Auburn	41 Bouver
Michaels, Arthur Milliams Miller, George August Moore, John Joseph Munn, Norman L. Mardock, Frederick Marean Nagge, Joseph William Pediatron, Joel Northrup, Francis F. Nutting, Charles Herbert, Jr. Olds, John Bryant O'Neill, John Arthur O'Polle, George Augustine Page, John L. Parker, John Jackson Petring, Lesile Walton Peltier, Charles Lester Petrin, Harold Henry Petrins, Irmest Milliam Atthur Pelices, Maurice Philin, Viren Elloworth Pollock, Maurice Popple, Arthur Sconlon, Edward Francis Arnold Richards, Kenneth Bancroft Riley, Stephen Thomas Ringoen, Andrew Theodore Rogers, Harry Rosoff, Leon Schonning, Carl Elmer Schonning, Carl El	Metcalf, John William, Jr.			Estabrook Hall
Miller, George Williams Moberg, Edgar August Moore, Jonathan Frederick MacGregor, Rob Roy Moran, John Joseph Munn, Norman L. Murdock, Frederick Marean Nagge, Joseph William Needham, Donald Alonzo Nicol, Everett Nordstrom, Joel Northrup, Francis F. Nutting, Charles Herbert, Jr. Olks, John Bryant O'Well, Mahlon Makerrow Parber, John Jackson Partridge, Leslie Walton Peltier, Charles Lester Perkins, Ernest Ralph Perrin, Harold Henry Peltier, Charles Lester Perkins, Ernest Ralph Perrin, Harold Henry Pilkin, Victor Ellsworth Pilkin, Victor Ellsworth Pilkin, Victor Ellsworth Pilkin, Victor Ellsworth Popple, Arthur Scowille Pullinger, Richard Colby Quinn, James Potts, W. Gerald Ramsdell, Edward S. Raphael, Ralph Read, Francis Arnold Richards, Kenneth Bancroft Riley, Stephen Thomas Ringoen, Andrew Theodore Rogers, Harry Rosoff, Leon Read, Francis Arnold Richards, Kenneth Bancroft Riley, Stephen Thomas Ringoen, Andrew Theodore Rogers, Harry Rosoff, Leon Read, Francis Arnold Reichards, Kenneth Bancroft Riley, Stephen Thomas Ringoen, Leo Joseph Salminen, Wilho M. Seanlon, Le Joseph Scott, Allan Charles Scott, Allan Charles Scott, John Howe Shanahan, Raymond Philip Shapiro, Louis Edward Shernan, David Sherman, Sherman, David Sherman, David Sherman, David Sherman, David Sherman, Davi	Mettler, Frederick Albert	29	Ridgefield Park, N. J.	
Munn, Norman L.  Murndock, Frederick Marean Nagge, Joseph William Nordstrom, Joel Northrup, Francis F. Nutting, Charles Herbert, Jr. Olds, John Bryant O'Neill, John Arthur Oswell, Mahlon Mackerrow O'Toole, George Augustine Page, John L. Parker, Joln Jackson Partridge, Leslie Walton Petlier, Charles Lester Perkins, Ernest Ralph Petrin, Harold Henry Peterin, Richard Joseph Pitkin, Victor Ellsworth Popple, Arthur Scoville Popple, Arthur Scoville Popple, Arthur Scoville Popple, Richard Colby Quinn, James Popple, Arthur Scoville Pullinger, Richard Colby Quinn, James Popple, Arthur Scoville Pullinger, Richard S. Ramsdell, Edward S. Ramsdell, Edward S. Ramsdell, Edward S. Ramsdell, Edward S. Ramsdell, Ralph Read, Francis Arnold Reichards, Kenneth Bancroft Riley, Stephen Thomas Ringoen, Andrew Theodore Rogers, Harry Rosoff, Leon Roy, Joseph Lenambert Rubens. William Charles Rzewski, Anthony Stanley Salminen, Wilho M. Scanlon, Leo Joseph Schonning, Carl Elmer Scott, John Howe Scott, Joh	Michaels, Arthur	_ 32	Everett	Estabrook Hall
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Murdock, Frederick Marean Nagge, Joseph William Nordstrom, Joel Nordstrom, Joe	MacGregor, Non Noy	n r	Clinton	Estabrook Hall
Murdock, Frederick Marean Nagge, Joseph William Nordstrom, Joel Nordstrom, Joe	Munn. Norman L.		Adelaide, So. Australia	14 Kingshury
Needham, Donald Alonzo Nicol, Everett Niman, William Arthur Nordrup, Francis F. Northrup, Francis F. Nutting, Charles Herbert, Jr. Olds, John Bryant O'Neill, John Arthur Oswell, Mahlon Mackerrow O'Toole, George Augustine Page, John L. Parker, John Jackson Partridge, Leslie Walton Petric, Charles Lester Perkins, Ernest Ralph Petrins, Ernest Ralph Petrins, Ernest Ralph Petrins, Ernest G. Phair, James Arthur Philbin, Richard Joseph Phikin, Victor Ellsworth Popple, Arthur Scovile Popple, Arthur Scovile Popple, Arthur Scovile Popple, Arthur Scovile Pullinger, Richard Colby Quinn, James Potts, W. Gerald Ramsdell, Edward S. Raphael, Ralph Read, Francis Arnold Richards, Kenneth Bancroft Riley, Stephen Thomas Riley, Stephen Thomas Ringoen, Andrew Theodore Rogers, Harry Rosoff, Leon Roy, Joseph Lambert Rubens, William Charles Rezwski, Anthony Stanley Salminen, Wilho M. Scanlon, Edward Francis Scott, John Howe Shanahan, Raymond Philip Shapiro, Louis Edward Shert, John Howe Shen, Joseph Michael Shert, Milton Samuel Sherman, David Silverman, Petta  Donbury, Conn.  166 Woodland Richards Ching Annine Santon Annine Santon All New York City A Pelham By Houghton By Houghton By Helam By Houghton By Houghton By Houghton By Helam By Houghton By Houghton By Helam By Houghton By Houghton By Helam By Houghton By Helam By Houghton By Helam By Houghton By Helam By Houghton By Helam By Houghton By Helam By Houghton By Houghton By Helam By Houghton By Houghton By Helam By Houghton By Helam By Houghton By Houghton By Helam By Houghton By Houghton By Helam By Hon Banzon A Fairhave	Murdock, Frederick Marea		West Boylston	17 mgobary
Needham, Donald Alonzo   29				166 Woodland
Niman, William Arthur Nordstrom, Joel New York City Farker, John Jackson Page, John L. Parker, John Jackson Patridge, Lesile Walton Peltier, Charles Lester Perkins, Ernest Ralph Perrin, Harold Henry Perrin, Harold Henry Peterson, Ernest G. Phair, James Arthur Philbin, Richard Joseph Pikin, Victor Ellsworth Pollock, Maurice Popple, Arthur Scoville Popple, Arthur Sc			Princeton	
Northrup, Francis F. Northing, Charles Herbert, Jr. Olds, John Bryant O'Neill, John Arthur O'Neill, Mahlon Mackerrow O'Toole, George Augustine Page, John L. Page, John L. Parker, Jolin Jackson Partridge, Leslie Walton Pettier, Charles Lester Perkins, Ernest Ralph Perrin, Havold Henry Peterson, Ernest G. Phair, James Arthur Philbin, Richard Joseph Pitkin, Victor Ellsworth Pople, Arthur Scoville Pople Pople Pople, Arthur Scoville Pople Pople Pople, Arthur	Nicol, Everett			
O'Neill, John Arthur Oswell, Mahlon Mackerrow O'Toole, George Augustine Page, John L. Parker, John Jackson Partridge, Leslie Walton Peltier, Charles Lester Perrin, Harold Henry Petrin, Harold Henry Petrin, Richard Joseph Pitkin, Victor Ellsworth Pollock, Maurice Popple, Arthur Scoville Pullinger, Richard Colby Quinn, James Potts, W. Gerald Ramsdell, Edward S. Raphael, Ralph Read, Francis Arnold Riley, Stephen Thomas Rosoft, Leon Roy, Joseph Lambert Rubens, William Charles Reweki, Anthony Stanley Salminen, Wilho M. Scanlon, Edward Francis Scanlon, Leo Joseph Schonning, Carl Elmer Schwieger, Albert James Scott, John Howe Shanahan, Raymond Philip Sherman, David Sherman, David Silverman, David Silverman, David Silverman, Petta Partridge, Lety and Parker, John James Porton, Cornell Rander Roy, Walter Roberts Sidor, Walter John Silverman, David Silverman, Petta Partridge, Leslie Walton Silverman, Petta Sheftel, Milton Samuel Sheftel, Milton Milton Silverman, Petta She	Niman, William Arthur	29		101 Dorchester
O'Neill, John Arthur Oswell, Mahlon Mackerrow O'Toole, George Augustine Page, John L. Parker, John Jackson Partridge, Leslie Walton Peltier, Charles Lester Perrin, Harold Henry Petrin, Harold Henry Petrin, Richard Joseph Pitkin, Victor Ellsworth Pollock, Maurice Popple, Arthur Scoville Pullinger, Richard Colby Quinn, James Potts, W. Gerald Ramsdell, Edward S. Raphael, Ralph Read, Francis Arnold Riley, Stephen Thomas Rosoft, Leon Roy, Joseph Lambert Rubens, William Charles Reweki, Anthony Stanley Salminen, Wilho M. Scanlon, Edward Francis Scanlon, Leo Joseph Schonning, Carl Elmer Schwieger, Albert James Scott, John Howe Shanahan, Raymond Philip Sherman, David Sherman, David Silverman, David Silverman, David Silverman, Petta Partridge, Lety and Parker, John James Porton, Cornell Rander Roy, Walter Roberts Sidor, Walter John Silverman, David Silverman, Petta Partridge, Leslie Walton Silverman, Petta Sheftel, Milton Samuel Sheftel, Milton Milton Silverman, Petta She	Nordstrom, Joel	31	D 34 :	6 King
O'Neill, John Arthur Oswell, Mahlon Mackerrow O'Toole, George Augustine Page, John L. Parker, John Jackson Partridge, Leslie Walton Peltier, Charles Lester Perrin, Harold Henry Petrin, Harold Henry Petrin, Richard Joseph Pitkin, Victor Ellsworth Pollock, Maurice Popple, Arthur Scoville Pullinger, Richard Colby Quinn, James Potts, W. Gerald Ramsdell, Edward S. Raphael, Ralph Read, Francis Arnold Riley, Stephen Thomas Rosoft, Leon Roy, Joseph Lambert Rubens, William Charles Reweki, Anthony Stanley Salminen, Wilho M. Scanlon, Edward Francis Scanlon, Leo Joseph Schonning, Carl Elmer Schwieger, Albert James Scott, John Howe Shanahan, Raymond Philip Sherman, David Sherman, David Silverman, David Silverman, David Silverman, Petta Partridge, Lety and Parker, John James Porton, Cornell Rander Roy, Walter Roberts Sidor, Walter John Silverman, David Silverman, Petta Partridge, Leslie Walton Silverman, Petta Sheftel, Milton Samuel Sheftel, Milton Milton Silverman, Petta She	Northrup, Francis F.	31		16 Shirley
O'Neill, John Arthur O'Swell, Mahlon Mackerrow O'Toole, George Augustine Page, John L. Parker, John Jackson Partridge, Leslie Walton Pettier, Charles Lester Petkins, Ernest Ralph Petrin, Harold Henry Petreson, Ernest G. Phair, James Arthur Poplick, Maurice Popple, Arthur Scoville Pople, Arthur Sco	Olds John Priore	Jr. 52	Naw York City	4 Norwood
O'Toole, George Augustine Page, John L. Parker, John L. Petrin, Harold Henry Petrin, Harold Henry Petreson, Ernest G. Phair, James Arthur Philibin, Richard Joseph Pitkin, Victor Ellsworth Pollock, Maurice Popple, Arthur Scoville Pullinger, Richard Colby Quinn, James Pots, W. Gerald Ramsdell, Edward S. Raphael, Ralph Read, Francis Arnold Riley, Stephen Thomas Ringoen, Andrew Theodore Rogers, Harry Rosoff, Leon Roy, Joseph Lambert Rubens, William Charles Razewski, Anthony Stanley Scalon, Leo Joseph Schonning, Carl Elmer Scott, John Howe Shanahan, Raymond Philip Shapiro, Louis Edward Sherman, David Sherman, David Silverman, David Silverman, David Silverman, Petts Silverman, Petta Silverman, Petts Silv	O'Neill John Arthur			4 1101 WOOd
O'Toole, George Augustine Page, John L. Parker, John L. Parker, John L. Parker, John Jackson         G F Norman, Okla.         166 Woodland 908 Main           *Partridge, Leslie Walton Peltier, Charles Lester Perkins, Ernest Ralph         30 Dalton         733 Main         423 Pleasant           *Petrin, Harold Henry Petrin, Harold Henry Petrin, Harold Henry Petrin, Mission, Kichard Joseph         8 West Oberlin         8 West Oberlin         3 Wilkinson         766 Main         3 Wilkinson         3 Wilkinson         3 Wilkinson         766 Main         3 Wilkinson         3 Wilkinson         766 Main         13 Woodbine         35 Maywood         4 Warvood)         973 Main         975 Main         973 Main         973 Main         975 Mai	Oswell, Mahlon Mackerrow		2 07710110	4 Pelham
Page, John L. Parker, John Jackson  *Partridge, Leslie Walton Peltier, Charles Lester Perkins, Ernest Ralph Perkins, Ernest Ralph Peterson, Ernest G. Phair, James Arthur Philbin, Richard Joseph Popple, Arthur Scoville Pollinger, Richard Colby Quinn, James Potts, W. Gerald Ramsdell, Edward S. Raphael, Ralph Read, Francis Arnold Riley, Stephen Thomas Ringoen, Andrew Theodore Rogers, Harry Rosoff, Leon Roy, Joseph Lambert Rubens, William Charles Razewski, Anthony Stanley Salminen, Wilho M. Scanlon, Edward Francis Scanlon, Leo Joseph Schonning, Carl Elmer Schwieger, Albert James Scott, John Howe Shanahan, Raymond Philip Shapiro, Louis Edward Sherman, David Sherman, David Silverman, David Silverman, Pavita Silverman, Silverman, Pavita Silverman, Pavita Silverman, Silverman, Pavita Silverman, Silverman, Silverman, Pavita Silverman, Silverman, Silverman, Pavita Silverman, Silverman, Silverman, Pavita Silverman, Silverman, Silverman, Silverman, Silverman, Vetta Silverman, Silve	O'Toole, George Augustine			
Parker, John Jackson	Page, John L.		Norman, Okla.	166 Woodland
Peltier, Charles Lester	Parker, John Jackson		Fairhaven	
Peterson, Ernest G.	*Partridge, Leslie Walton			
Peterson, Ernest G.	Peltier, Charles Lester			973 Main
Peterson, Ernest G.	Perkins, Ernest Ralph	H F	Northfield, Vt.	8 West Oberlin
Phair, James Arthur   Silverman, Pairs   Philbin, Richard Joseph   Spitkin, Victor Ellsworth   Silverman, Pairs   Scanlon, Leon Scott, John Howe Sanahan, Raymond Philbin, Silverman, David Sherman, David Sherman, David Silverman, Pairs   Silverman, Silverman, Pairs   Silverman, Silverman, Pairs   Silverman, Silver	Peterson Ernest C	Dh C S		2 Wilkinson
Philbin, Richard Joseph   Strikin, Victor Ellsworth   30 Marshfield, Vt.   35 Maywood   Pollock, Maurice   29 Lawrence   29 Lawrence   1973 Main   973 M	Phoir James Arthur	71 C 3	Limestone Maine	766 Main
Popple, Arthur Scoville	Philbin, Richard Ioseph	8	Limestone, Maine	
Popple, Arthur Scoville	Pitkin, Victor Ellsworth	30	Marshfield, Vt.	
Pullinger, Richard Colby   29	*Pollock, Maurice			
Pullinger, Richard Colby   29	Popple, Arthur Scoville		Newport, R. I.	973 Main
Anichards, Kenneth Bancroft   Solution   Silverman, Veita   Service   Solution   Silverman, Veita   Silverman, Veita   Solution   Silverman, Veita   Solution   Solution   Silverman, Veita   Solution   Solutio	Pullinger Richard Collar		E. Stroudsburg, Pa.	
Anichards, Kenneth Bancroft   Solution   Silverman, Veita   Service   Solution   Silverman, Veita   Silverman, Veita   Solution   Silverman, Veita   Solution   Solution   Silverman, Veita   Solution   Solutio	Quinn, James			
Anichards, Kenneth Bancroft   Solution   Silverman, Veita   Service   Solution   Silverman, Veita   Silverman, Veita   Solution   Silverman, Veita   Solution   Solution   Silverman, Veita   Solution   Solutio	Potts, W. Gerald	H g		
Anichards, Kenneth Bancroft   Solution   Silverman, Veita   Service   Solution   Silverman, Veita   Silverman, Veita   Solution   Silverman, Veita   Solution   Solution   Silverman, Veita   Solution   Solutio	Rankael Palah	90		
Anichards, Kenneth Bancroft   Solution   Silverman, Veita   Service   Solution   Silverman, Veita   Silverman, Veita   Solution   Silverman, Veita   Solution   Solution   Silverman, Veita   Solution   Solutio	Read Francis Arnold		Danbury Conn.	35 Maywood
Riley, Stephen Thomas   31   35 Park Terrace Rd.	*Richards, Kenneth Bancrot	t 30	Danbury, Com.	4 Montague
Ringoen, Andrew Theodore   29	Riley, Stephen Thomas			35 Park Terrace Rd.
Roy	Ringoen, Andrew Theodore	29		41 Wachusett
Roy	Rogers, Harry			
Roy	Rosoff, Leon		Watertown	Estabrook Hall
Shapiro, Louis Edward   31   18 Ormond	Roy, Joseph Lambert		Webster	Estabrook Wall
Shapiro, Louis Edward   31   18 Ormond	Research Anthony Stoples		So Hadley Falls	
Shapiro, Louis Edward   31   18 Ormond	Salminen, Wilho M.		Hubbardston	os reity alve.
Shapiro, Louis Edward   31   18 Ormond	Scanlon, Edward Francis			
Shapiro, Louis Edward   31   18 Ormond	Scanlon, Leo Joseph			39 Granite
Shapiro, Louis Edward   31   18 Ormond	Schonning, Carl Elmer	30		
Shapiro, Louis Edward   31   18 Ormond	Schwieger, Albert James		Milaca, Minn.	
Shapiro, Louis Edward   31   18 Ormond	*Scola, Franklyn James			30 Houghton
Shapiro, Louis Edward   31   18 Ormond	Scott, Alian Charles			004- W-i-
Shapiro, Louis Edward   31   18 Ormond	Shanshan Raymond Blatte			
Sheftel, Milton Samuel 31 153 Providence Sherman, David 29 58 Pleasant Sherman, Walter Roberts 31 West Hartford, Conn. Sidor, Walter John 32 Hartford, Conn. Silverman, David 29 25 Woodford Silverman, Yetta Ps. S Brooklyn, N. Y. 731 Pleasant				
Sheftel, Milton Samuel 31 153 Providence Sherman, David 29 58 Pleasant Sherman, Walter Roberts 31 West Hartford, Conn. Sidor, Walter John 32 Hartford, Conn. Silverman, David 29 25 Woodford Silverman, Yetta Ps. S Brooklyn, N. Y. 731 Pleasant	Shea, Joseph Michael			
Sherman, David Sherman, Walter Roberts 31 West Hartford, Conn. Sidor, Walter John Silverman, David 29 25 Woodford 25 Brooklyn, N. Y. 31 Pleasant	Sheftel, Milton Samuel			
Silverman, Yetta	Sherman, David			586 Pleasant
Silverman, Yetta	Sherman, Walter Roberts			
Silverman, David  Silverman, Yetta  Ps. S Brooklyn, N. Y.  Sinkins, Ethel  G g Liverpool, Eng.  25 Woodford  731 Pleasant  166 Woodland	Sidor, Walter John			
Silverman, 1 etta Ps. S Brooklyn, N. Y. 731 Pleasant Simkins, Ethel G g Liverpool, Eng. 166 Woodland	Silverman, David		D 11 37 49	
G g Liverpool, Eng. 100 woodland	Sinverman, Yetta			
	Julania, Etnel	G g	Liverpoor, Eng.	100 W Oodland

NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER	ADDRESS
Simonds, Stuart Howes	8		41 Maywood	
Simmonds, William Melvin		New Haven, Conn.	35 Maywood	
Skinner, David Ludington	31		287 June	
Slade, Frank David	30	Pearl River, N. Y.	35 Maywood	
Slate, Robert Irving	29	Bernardston	13 Woodbine	
Slopak, Abraham	32	Colchester, Conn.	Estabrook	Hall
Smith, Benjamin		Lowell	941 Main	
Smith, Fanny R.		Chicago, Ill.	24 Loudon	
Smith, Rubin Louis	32		75 Vale	
Snell, Silvanus H.	30	Southbridge	4 Hancock	
Solomon, Harry David	30	_	3 Flower	
Southwick, Thomas Earle		Leicester		
Spadola, John M.	Ch S		60 Suffolk	
Spaulding, Charles C.	30	Durham, N. C.	Estabrook	Hall
Spence, Robert Adams	32		53 Kenwood	Ave.
Stedman, Harry P.	30		Isabella	
Steinman, Morris	32	Haverhill	Estabrook	Hall
Stevens, Frank Paul	30		9 Lawrence	
Stewart, Walter Grant	29		19 Kingsbury	
Stone, Robert	Ps F	Schenectady, N. Y.	Estabrook	Hall
*Sullivan, John J.	8		71 Jacques A	
Susnitzky, William H.	31	Danbury, Conn.	20 Gates	
Susnitzky, William H. Svenson, Sven Oscar	31		36 Holden	
Swan, Paul R.	Ec g		50 Holden	
Swett, Elmer Lincoln	31		54 Grafton	
Ten Broerk, Edward M.	29	Gloversville, N. Y.	35 Maywood	
Tupper, Eleanor	HF		45 Harvard	
Twombly, Elwin Holbrook	31	St. Johnsbury, Vt.		
Ussher, Sydney R.	30		10 High	
Vinal, Ella L.	Ec S	No. Scituate	166 Woodland	
Walden, William W.		Guilford, Conn.	6 Charlotte	
Walsh, Vincent Martin	32		63 Stafford	
Wells, Newton Albert	31	Granby, Conn.	973 Main	
*Welson, Milton Kibbe	29	Holyoke		
West, Anthony Joseph	8		8 Barclay	
West, Frederick Myron	32	Haverhill	Estabrook	Hall
West, Boardman Adelbert	31	E. Pepperell	193 Dewey	
Weymouth, Harold Davis	31	Fisherville		
Wheeler, Alfred H.	H S	Rochester, N. Y.	166 Woodland	
Wheeler, Ralph J.	H g		4 Park Ave.	Pl.
White, Albert Corydon	32	Springfield	Estabrook	
Whitehouse, Karl Chism	32	Abington, Conn.	Estabrook	
Whitman, Samuel Milton	30	,	26 Woodford	
Wiel, Theodore Alexis	31	Springfield	Estabrook	Hall
Wilder, Frank W.	Ch S		3 Bernice	
Whiting, Stanley H.	Ch S		199 May	
Williams, William Larkin	30	Williamsville, Vt.	Estabrook	Hall
Wilson, Frank Edward	30	Warren		
Winslow, Guy H.	Hg	So. Lancaster		
Winter, Frederick	30		15 Reservoir	
Winton, Hildreth Turner	30	Strafford, Conn.	11 Charlotte	
Wordell, Everett Job	30	Portsmouth, R. I.	Estabrook	Hall
Wright, Albert Charles	31		32 Gardner	
Zumpfe, Leroy Clifford	29			
Tampio, acro, carrie	-			

# 1928 SUMMER SCHOOL

Addicott, Harold B.
Anderson, Alton R.
Anderson, S. Axel
Atwood, Robert B.
Atwood, Rollin
Bailey, Beatrice
Barnes, Frances N.
Beaton, Stephen Jr.
Bergin, J. A.
Berggren, Stina M. O.
Bingham, Mary A.
Blomstrom, Lillian S.
Bordwin, L. Elaine
Bowen, Stephen
Breitling, Margaret H.
Brown, Virginia M.
Burch, Eleanor R.

Athens, Ohio
Worcester
Orange
Winnetka, Illinois
Worcester
Waltham
Worcester
Millbury
Millbury
Worcester
Nashua, N. H.
Worcester
Montclair, N. J.
Worcester
Halethorpe, Md.
Wilmington, Del.
Worcester

Burgess, Frances C. Callahan, Ellen G. Campbell, Emma L. Carroll, David B. Chamberlain, Phyllis Chaffee, Mrs. Sadie R. Champlin, Ruth Clapp, John Norman Clifford, Mae Close, Anna E. Coburn, Eliza Cole, Dale V. Cole, Dale V.
Condon, Everett J.
Cookson, Dorothy L.
Cooney, Ruth M.
Corbin, Milton W.
Corliss, Jane
Cotterel, Mary E.
Cowles, Elma M.
Cronin, Helena D.
Crowley Helen M. Crowley, Helen M. Cunningham, Floyd F. Curley, Elizabeth G. Curtis, Hazel S. Daley, Kathrine M. Denton, J. Wm. Dewar, Margaret H. Dewar, Margaret H. Diefenderfer, Mrs. Carolyn S. Doherty, Alfred J. Downey, Frances Dumas, Thoodore Dupuis, M. Adeline Dywer, Anna M. Dymond, Emily Elias, Augustus F. Endress, Marguerite C. Esty, Marion Evans, Arthur G. Ezekiel, Helen O. Felt, Charles W. Field, Eugene F., Jr. Fillman, Louise Filmore, Nellie M. Fitch. Adelaide C. Flanders, Verna Belle Foley, Mary J. Fontana, Louise Fryer, Francis L. Gerard, Wilhelmina Gifford, Barbara Goetz, Naomi Goodell, Caroline O. Goodspeed, Madge L. Gorman, Ruth E Gover, Eleanor M. Gowetz, Irene Gregory, Elizabeth E. Griffin, Grace A. Grotjohan, Martin Gabrielson, Karl A. Haines, Ethel Haldeman, Abigail B. Hall, Florence E. Harris, Marion V. Hastings, Walter Jr. Hayden, Mary D. Henderson, Grace H. Henderson, Mildred Herr. Elizabeth Herre, Ralph S. Hines, Agnes Hitzel, Beulah C. Holzhauer, Carl F.
Houghton, Dorothy E.
Houston, Ann J.
Howard, J. Philip
Hoyt, Edith

Huntington, W. Va. Worcester Whitehall, N. Y. Worcester Worcester Hartford, Conn. Fleischmanns, N. Y. South Lancaster Worcester Worcester Wakefield Morgantown, W. Va. Shrewsbury Worcester Cherry Valley Worcester Worcester Reading, Pa. Craftsbury, Vt. Worcester North Adams Flat Rock, Ill. Worcester Poughkeepsie, N. Y. Worcester Roxbury Worcester Allentown, Pa. Wilton, N. H. Worcester Worcester Grafton West Upton Worcester Amherst Clinton Worcester Oswego, N. Y. Lisbon, N. H. Westboro Worcester Worcester Houlton, Me. Worcester Richmond, Va. Northboro Gardner Elmira, N. Y. Shrewsbury Walbridge, Ohio Whitinsville Lynn, Mass. Worcester Worcester Batavia, N. Y. Worcester Cleveland Heights, Ohio Worcester Erie, Pa. Worcester Verbank, N. Y. Margate City, N. J. Watertown, N. Y. Millbury Webster Rosendale, N. Y. Tyngsboro Worcester Peach Bottom, Pa. Brockport, N. Y. Worcester Buffalo, N. Y. Detroit, Mich. Worcester Washington, D. C. Hubbardston Marietta, Ohio

Huntting, Ella Hutter, Harry K. Jones, Stephen B. Kane, Florence K. Kaneb, Albert J. Kasel, Alfred W. Keller, Lois R. Kennedy, Katherine F. King, Marguerite F. King, Marguerite F. Kinniery, Honora E. Kinniery, Anna A. Kirby, Margaret V. Kittredge, Mary E. Knowlton, Margaret W. Kochian, Esther M. Kuhr, Laura
Kuhr, Laura
Kulp, Florence R.
Laiviz, Mary E.
Lanphear, Mrs. Cora
Lemaire, Minnie E. Lindeman, Mary E. Lombard, A. Mildred Lombard, Helen Lundgren, Evelyn Lyon, Miriam P. Lytle, Carl D. Mahnke, Mildred E. Mahoney, Eileen V. Manning, Miriam Marble, Ernest T. Margon, Louis Matteson, Estella M. Manville, Alena V. McClellan, Myrta L.
McGovern, Margaret M.
McGrath, T. S.
McHugh, Elizabeth F. McPartland, Mary E.
McQueeny, Theresa F.
McVey, Clarinda
Means, Margaret Means, Margaret Melican, Gertrude C. Melton, Nell L. Merritt, Bessie A. Miner, Ethel M. Mitchell, Adelphi Moore, Catherine L. Morse, Eleanor W. Maynihan, Daniel Morse, Eleanor W. Moynihan, Daniel Murphy, Mary A. Murphy, Theresa M. Nankivell, Wm. A. E. Needham, Donald Nelson, Harold Northridge, Alice H. O'Connor, Eleanor C. O'Connor, Mary E. O'Donnell, Kathryn R. Ollis, Mrs. H. A. Osborn, Oressa N. Osborn, Oressa N. Otis, Flora E. Parker, Dorothy V. Pasanen, Walter R. Patt, Hermann G. Payne, Arvella Peskin, Charles Petersen, Dorothea H. Pierce, Evelyn H. Pollard, Inez E. Pollock, Ellen Pool, Alice R. Pottle, Annie C. Prator, Moina Prouty, Etta F. Quimby, Robert S. Regan, John Roach, Cornelia B.

Montclair, N. J. Waterman, Ill. Cambridge Brighton, N. Y. Worcester Moline, Ill. Athens, Ohio Nashua, N. H. Worcester Millbury Millbury Worcester Worcester Worcester Portland, Maine Toledo, Ohio Abington, Pa. Worcester Irwin, Pa. Worcester Trenton, N. J. Worcester Worcester Worcester Worcester Melrose Oswego, N. Y. Westboro Boylston Worcester New York City Oneonta, N. Y. Whitehall, N. Y. Los Angeles, Cal. Worcester Worcester Worcester Worcester Worcester Black Creek, N. Y. Bloomington, Ill. Worcester Atlanta, Ga. Dunkirk, N. Y. Gardner Worcester Hancock, N. H. Shrewsbury Worcester New Britain, Conn. New London, Conn. Minlaton, So. Australia Princeton New Britain, Conn. Worcester Gardner Spencer Worcester Worcester Spencer Oswego, N. Y. Whitehall, N. Y. Worcester Manchester-by-the-Sea Middletown, N. Y. Worcester Worcester Millbury Danbury, Conn. W. Medford Brooklyn, N. Y. Waltham Springfield, Mo. Shrewsbury Worcester Holyoke Buffalo, N. Y.

Roe, Harriet E. Rogers, Marguerite Rood, Mabel L. Sands, Frances B. Sands, Frances B.
Sannella, Frank
Savage, Elizabeth
Scaife, Mona
Schwab, Wm. K.
Scott, Allan C.
Scott, Martha W.
Scott, Ruth
Shaughnessy, Thos. B.
Silk, Ellen M. H.
Silmmons, Anna E. (M. Simmons, Anna E. (Mrs.) Slate, Robert I. Sohlberg, Ethel O. Sowden, Ruth V. Stake, Dorothy Stanton, Cora A. Stanton, M. Alice Strasburg, Fred R. Strasburg, Fred R.
Swan, Paul R.
Swartfiguer, Eva M.
Sweet, Emily
Thompson, Elizabeth G.
Tierney, Thomas J.
Tilson. A. Eliese Tilson, A. Elicae Tolman, Louise Tupper, Eleanor Turner, W. R. Wall, Roy H. Wallace, Hilda G. Walls, Mildred A. Walsh, Mary C. Warren, Marion Wesolowski John Wesolowski, John C. West, Anthony J. White, Helen M. Wilcox, Lillian A. Wilmouth, Irene F. Wood, Clifton Wrightson, George F. Wyman, Jane M. Zeller, Rose Yoakley, Ina

Worcester Worcester Ravenna, Ohio Worcester Worcester Whitinsville Worcester Atlantic City, N. J. Westboro Washington, D. C. Trenton, N. J. Worcester Spencer Fitchburg Bernardston Worcester Worcester Burlington, Vt. Worcester Worcester Worcester Wilbraham, Mass. Worcester Poughkeepsie Waltham, Mass. Worcester Worcester Worcester Worcester Worcester Ferris, Ill. Worcester Mineola, L. I. Leicester, Mass. Spencer, Mass. Grafton, Mass. Holyoke, Mass. Northbridge, Mass. Worcester Washington, D. C. Buffalo, N. Y. Worcester Worcester Worcester Worcester Auburndale, Mass.

# **EXTENSION STUDENTS 1928-29**

Adams, Marian E.
Amiot, Alice G.
Amiot, Mary L.
Atkinson, Ruth F.
Bacon, Ruth I.
Begley, Jennie V.
Belding, Alice H.
Bérubé, Eva L.
Boson, Svea
Bowen, Grace L.
Boson, Mildred R.
Bryant, Nellie J.
Burns, Maria J.
Butler, Marie
Callahan, Ellen G.
Callahan, Mary W.
Callahan, Mary W.
Campbell, Anna L.
Campbell, Anna L.
Campbell, Anna L.
Carroll, Margaret M.
Cascy, Irene C.
Cavanaugh, Teresa J.
Coffey, Grace C.
Conroy, Anne C.
Copeland, Mary L.

Costello, Florence P.
Coyle, Frances E.
Cvaffey, Frances E.
Cunningham, Mary E.
Curley, Elizabeth G.
Currie, Marion C.
Daley, Kathrine M.
Davis, Ella G.
DeLaMater, Gertrude D.
Dewar, Margaret H.
Diggins, Grace L.
Diggins, Helen B.
Donnelly, Mary T.
Dowd, Theresa V.
Doyle, Catherine A.
Drohan, Alice R.
Dunn, Ellen G.
Ford, Anne J.
Galvin, Della E.
Galvin, Mary R.
Ginn, Addie M.
Goodspeed, Madge L.
Gorman, Ruth E.
Gorady, Mary M.
Gray, Margaret V.
Hale, Delia M.

Harney, Marion
Harrington, Ella M.
Harris, Bessie L.
Harris, Marion V.
Healy, Ellen A.
Healy, Katherine R.
Healy, Mary C.
Higginbotham, Willie R.
Hines, Agnes W.
Hudson, Izetta F.
Hurowitz, Max
Hurowitz, Solomon
Israel, Nathan E.
Johnson, Carl
Johnson, Carl
Johnson, Hilda V.
Johnson, Syrena M.
Kane, Josephine V.
Kane, Mary F.
Keany, Katherine V.
Kelley, Alice E.
Kennedy, Catherine A.
Kennedy, Catherine A.
Kennedy, Katherine T.
Kennedy, Margaret C.
Kennedy, Helen
Killelea, Mary E.

Kilton, Dorothy G.
Kinniery, Anna A.
Kinniery, Anna A.
Kinsley, Edith L.
Kirby, Margaret V.
Knowlton, Margaret W.
Larkin, Mary J. M.
Lawlor, Mary A.
Lee, Alice A.
Lee, Margaret F.
Lombard, Helen F.
Lombard, Helen F.
Lombard, Helen F.
Lombard, Helen F.
Amhoney, Rose M.
Mahan, Kathryn E. A.
Maher, Ellen T.
Mahoney, Rose M.
Mahoney, Margaret V.
Mather, Edna
Matthews, Mary A.
Maxwell, Lillian R.
Mellen, Anne T.
Miller, Levi T.
Mittell, Edith
Moran, Helen G.
Moynihan, Mary C.
Murphy, Annie E.
McAuliffe, Grace E.
McAuliffe, Margaret I.
McConnell, Nellie A.
McGollicuddy, Mary V.
McGourty, Annie V.
McGourty, Annie V.
McGourty, Annie V.
McHugh, Catherine M.
McHugh, Catherine M.
McHugh, Elsie M.
McManus, Elizabeth G.
McMeurray, Mary D.
McPartland, Mary E.

McPartland, Marguerite F.
McQueeny, Drothy E.
McQueeny, Drothy E.
McQueeny, Theresa F.
McSheehy, Elsie M.
Nordmark, Lillian C.
Noyes, Christine B.
O'Brien, Katherine F.
O'Connor, Delia G.
O'Connor, Delia G.
O'Connor, Sabina G.
Ohrn, I. Marie
Oliver, Grace E.
Ollis, Grace E.
Orlis, Grace E.
Ormsby, Martha E.
Ostrom, Abbie C.
Ott, Katherine L.
Palley, Lillian S.
Pitkin, Viotor
Portle, Dorothy U.
Power, Gertrude C.
Power, Josephine R.
Power, Katherine L.
Prouty, Etta F.
Quinn, Jennie H.
Rankin, Ethel M.
Reardon, Gertrude E.
Regan, Ellen F.
Regan, Mary E.
Ricketts, Lois C.
Ridlon, Elmer S.
Rollins, Grace D.
Rome, Sophie
St. Amour, Florence
Salmon, Edward P.
Salter, Dorothy L.
Santon, Sylvia
Savage, Elizabeth A.

Sayle, Harriet A.
Sayle, Mary E.
Sayle, Mary E.
Schofield, Ellen M.
Seder, Thelma
Shattuck, Anna W.
Shea, Elizabeth M.
Sheedy, Mary A.
Sherwin, Louise A.
Simmons, Anna E.
Skeist, Irene D.
Smith, Flora L.
Smith, Flora L.
Smith, Marian T.
Snow, Edith A.
Snow, Helen G.
Sprague, James B.
Stacy, Chester R.
Stanton, Cora A.
Starkey, Netty A.
Stevens, Althea
Stromberg, Alfhild E.
Sullivan, Certrude M.
Sullivan, Gertrude M.
Sullivan, Gertrude M.
Sullivan, Mary V.
Sullivan, Mary V.
Sullivan, Mary V.
Wullivan, Mary L.
Traynor, Catherine T.
Twiss, Marion D.
Ward, Mary L.
Wheatley, Catherine R.
White, Ruth M.
Wilmarth, Madelin A.
Wilmouth, Irene F.
Wilson, Dorothy E.
Wordell, Everett J.
Wyman, Marian M.
Yerow, Beatrice

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# Clark University Bulletin

Sub-Freshman Number



Published in the interest of Gld Briends and New Acquaintances

Morcester, Massachusetts



LARK UNIVERSITY offers at moderate expense a thorough collegiate training leading to the degree of Bachelor of Arts. The scholastic requirements for the degree are one hundred and twenty semester hours credit in addition to Physical Training, with a rank above the bottom quarter of the

class in three-fifths of the work.

In a limited number of departments, work is offered leading to the degrees of Master of Arts and Doctor of Philosophy.

The presence of a proportionately large graduate student body offers inducement to undergraduates for high standards of work.

Small classes and a relatively large faculty allow close acquaintance with heads of departments.

Undergraduates are encouraged to carry as full a schedule of courses as they are able and still maintain an average in the upper half of their classes. This permits those with sufficient ability to finish the course in three years and one-half or occasionally even in three years.

An endowment above the average, given for the specific purpose of keeping the expense of an education low, allows the tuition to be held at \$200.00.

Twenty Jonas G. Clark Memorial Scholarships of \$100.00 each are available for entering freshmen who have graduated in the upper quarter of their preparatory school class. Ten similar scholarships are available for each of the three upper classes in college.

# Foreword

You, as a High School Senior, may wonder why Clark University takes the trouble to send this bulletin to you.

One reason is that while the graduate division of Clark University has an international reputation among scholars, the undergraduate division ("college") is younger and less widely known. We want you to know of it and to realize how attractive its educational opportunities are for young men who wish a first class college training. Clark men today are continuing their work with distinction in the best graduate schools of the country—both business and professional—or carrying on successfully in the various vocations.

Another reason is that it is our desire to select carefully about one hundred and twenty-five Freshmen each year from a much larger number of applicants. If you are well qualified and are looking forward to a first class education at a small New England college, you will do well to investigate Clark. The opportunities for personal association with the members of the faculty and for the establishment of close friendships with a large proportion of your classmates are especially good and will remain so because under no circumstances will Clark accept a large number of students. You will need fifteen certified units for admission without condition, but two conditions will be allowed if you are in every other way qualified. Deficiencies in certified units may be redeemed by passing the College Board examinations. You will also need good personality and character recommendations for we are to be increasingly careful in this respect.

Finally, although jealously guarding our reputation among New England colleges for the excellence of our scholastic work, we wish our students to have the other delightful experiences which accompany life at college. The opportunities for these as offered by athletic, musical, and social activities are described in the following pages.

We hope that you will read this bulletin carefully. If thereby you gain a worthwhile educational opportunity and we gain a worthwhile alumnus, we shall be satisfied.

Mallace M. Curvod

# Officers of Administration and Instruction

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President

Professor of Physical and Regional Geography and Director of the Graduate School of Geography

HOMER PAYSON LITTLE, Ph.D. (Johns Hopkins)
Dean of the College and Professor of Geology

LOUIS N. WILSON, Litt. D. (Tufts)
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EDITH M. BAKER Acting Librarian

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Professor of Psychology

WILLIAM HOMER WARREN, Ph.D. (Harvard)
Professor of Organic Chemistry

Professor of Organic Chemistry
WALTER S. HUNTER, Ph.D. (Chicago)

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CHARLES FRANKLIN BROOKS, Ph.D. (Harvar Professor of Meteorology and Climatology

DOUGLAS CLAY RIDGLEY, Ph.D. (Clark)
Professor of Geography in Education
JOHN PAUL NAFE, Ph.D. (Cornell)
Professor of Experimental Psychology

CLARENCE FIELDEN JONES, Ph.D. (Chicago)
Professor of Economic Geography

\*Absent on leave, 1929-30.

\*JAMES BLAINE HEDGES, Ph.D. (Harvard)
Professor of American History

WALTER ELMER EKBLAW, Ph.D. (Clark)
Professor of Agricultural Geography

CAREY EYSTER MELVILLE, A.B. (Northwestern)
Associate Professor of Mathematics and Registrar

VERNON A. JONES, Ph.D. (Columbia Teachers')
Associate Professor of Educational Psychology

JAMES ACKLEY MAXWELL, Ph.D. (Harvard)
Associate Professor of Economics

ARTHUR FLETCHER LUCAS, Ph.D. (Princeton)
Associate Professor of Economics

LELAND LEAVITT ATWOOD, Ph.D. (Cornell)
Assistant Professor of Romance Languages

JESSE LUNT BULLOCK, A.M. (Harvard)
Assistant Professor of Chemistry

\*DAVID POTTER, M.Sc. (Mass. Agri. College)
Assistant Professor of Biology

GEORGE ELISHA BAKER, A.M. (Harvard)
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PERCY M. ROOPE, Ph.D. (Clark)
Assistant Professor of Physics

DWIGHT E. LEE, Ph.D. (Rochester)
Assistant Professor of History

HEINRICH BOSSHARD, Ph.D. (Zurich)
Assistant Professor of German

OSCAR WHITE RICHARDS, A.M. (Oregon)
Assistant Professor of Biology

W. CLEMENT EATON, Ph.D. (Harvard)
Assistant Professor of American History

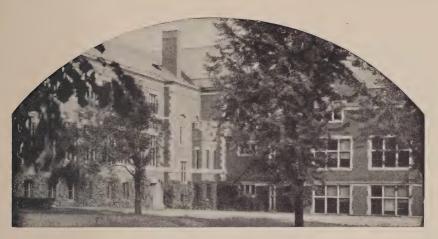
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Assistant Professor of Sociology

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ERNEST RAYMOND WHITMAN
Director of Physical Education

RALPH WARNER ELLIS, M.D. (Harvard)
Medical Director

DEAN WINSLOW HANSCOM, A.B. (Harvard)
Director of Glee Club



INNER COURT, UNIVERSITY LIBRARY

#### Location

LARK UNIVERSITY is situated in Worcester, Massachusetts, a city of some 200,000 inhabitants, 45 miles from Boston. Worcester has long been one of the educational centers of New England, being the seat of Holy Cross College, Worcester Polytechnic Institute, Assumption College, Wor-

cester State Normal School, and Worcester Academy. The Worcester Art Gallery, with its large endowment, is one of the notable galleries of the country. The churches of the city number over 100, and give full opportunity for worship according to individual preference. The Y. M. C. A. building, within easy walking distance of the University, is modern and well equipped. The situation of the city is such that opportunities in drama and in music are offered superior to those available in most cities of similar size.

#### Historical

Clark University owes its existence to the generosity of Jonas Gilman Clark, who gave funds for its establishment during his life and bequeathed it his fortune at his death. Students were first received in 1889. For the first thirteen years the University was exclusively a graduate school and, under the leadership of President G. Stanley Hall, an able

staff of instructors sent out from the University a steady stream of scholarly men who have given the institution a prominence disproportionate to its size in the fields of Biology, Chemistry, Education, Mathematics, Physics, and Psychology. Under the provisions of Mr. Clark's will Clark College was established in 1902. At first the University and the College occupied the same grounds and buildings but had separate presidents and faculties. In 1921-1922 plans for their unification were perfected, and they became the Graduate and Undergraduate Divisions of Clark University. The latter however, is still ordinarily referred to as Clark College.

### The Campus

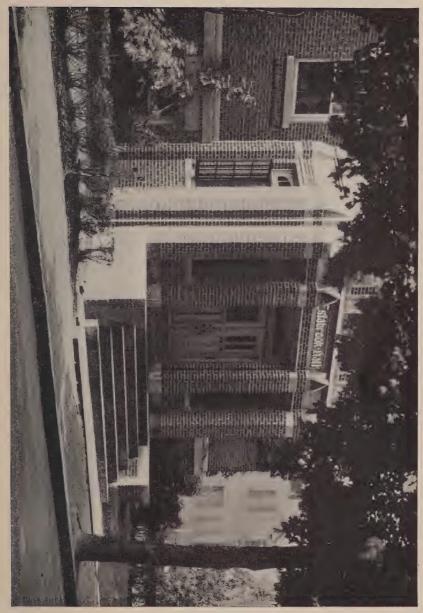
The campus consists of a plot of about seven acres, a mile southwest of the business center of Worcester. The offices of administration are in Jonas G. Clark Hall.

Estabrook Hall, the freshman dormitory, is only a few minutes walk from the campus. It accommodates fifty-one students. It is thoroughly up-to-date, heated by steam, well equipped with shower baths, and has light, airy corridors. The building is cared for by a man and wife of excellent personality who reside in it. The ground floor is occupied by the Dining Hall.

The University has recently developed as an athletic field a plot of about seven acres and equipped it with bleachers and a field house. There is, in addition, the old athletic field, an acre or more in extent, immediately adjoining the campus, with tennis courts, outdoor basketball court, a six lap running track and space for field events.

# Endowment, Faculty, Laboratories, and Library

Clark University is a small institution with a total enrollment of approximately 350 full time students, but in contrast to many small institutions has a relatively large endowment—nearly five million dollars—with an additional million in its plant. This money is invested in the three things which make any institution outstanding—its faculty, its laboratories, and its library. These are the features about which an estimate of Clark should center.





G. STANLEY HALL MEMORIAL ROOM

vas an internationally famous psychologist and presider

G. Stanley Hall was an internationally famous psychologist and president of the University from its founding in 1888 to his resignation in 1920. His portrait appears in the cut.

The Library deserves special mention. Clark is almost uniquely fortunate in this prerequisite for real university and college life for approximately a million dollars is available for the exclusive use of the Library. A permanent staff of seven besides student assistants is employed and the building is open for study from 8 a. m. to 10 p. m. each week day. Over one hundred thousand bound volumes and pamphlets are on the shelves and over five hundred journals are regularly received. About four thousand books are added each year. Each member of the University has direct access to every book and journal.

Money has been generously spent in the equipment of research laboratories and the undergraduate student receives much advantage from their presence. The Chemical Laboratory unquestionably has an equipment superior to that of many colleges twice the size of Clark and the Psychological Laboratory is one of the finest in the country.

The Faculty, forty in number, is in an unusually large ratio to the student enrollment. The high degree of its professional training may be judged by an examination of its personnel, page 2. With its limited numbers Clark offers to every student



an unusual opportunity for personal association with the Head of each Department in which he is working. Moreover, with a faculty of this size, Clark is able to do much of its work in small classes, an ideal universally sought for but rarely realized. These features may perhaps be justly regarded as the most important educational advantages of a course at Clark.

#### Courses of Study

In the Undergraduate School the range of courses is similar to that offered in any first class college. Instruction is given in the following thirteen departments:

A. Division of Science

I Mathematics, II Physics, III Chemistry, IV Biology,  $V \ \ \text{Geology}$ 

B. Division of Social Science and Psychology VI History and International Relations, VII Economics and Sociology, VIII Psychology and Education IX Geography

C. Division of Languages and Literature X English, XI German, XII Romance Languages, XIII Ancient Languages

The freshman program is largely fixed as it must include English, a Foreign Language, a course in the Division of Social Science and Psychology, and either Biology, Chemistry, Physics, or Mathematics.\*

At the end of the freshman year a student is expected to indicate in which department he intends to major and to select a minor in a closely related field. Too early specialization is prevented by required work in English, Foreign Languages, Laboratory Science, and Social Science and Psychology. These requirements, however, may be largely completed by the end of the sophomore year, leaving much of the last two years free for study in fields of special interest.

Clark desires the superior student to do independent work as early as possible and to this end those who average in the upper quarter of their classes are allowed during the junior and senior years to do independent work, not to exceed three hours each semester, under special supervision and without the requirements of regular classroom work. In this manner

<sup>\*</sup>A semester course in the Fine Arts must be elected in either Freshman or Sophomore year.



the transition to the graduate attitude of mind is easily made. This, together with the fact that an undergraduate whose scholastic record is good may continue his training at small cost, leads many Clark men into graduate study.

In addition to the usual courses leading to the degree of Bachelor of Arts, Clark offers graduate work leading to the degree of Master of Arts in Chemistry, and Physics, and to the degree of Doctor of Philosophy in Economics and Sociology, Geography, History and International Relations, and Psychology and Education. No attempt is made to rival the large universities in the range of fields covered, but rather to do excellent work in a few departments. The Graduate School of Geography is performing a service unique in this part of the United States. The Summer School offers courses leading to the degree of Bachelor of Education, emphasizing particularly work in Economics, Geography, and History.

### Admission

The normal requirements for admission to the Undergraduate Division of Clark University are first, graduation from a high school of good standing; second, presentation of fifteen units of certified work; third, evidence of good moral character. Students who present thirteen or fourteen certified units may be admitted on condition. These may be removed on evidence of ability to do satisfactory college work. Those who cannot present thirteen certified units for admission may obtain the required additional units by passing the examinations of the College Entrance Examination Board. Information concerning the Board may be obtained by addressing 431 West 117 St., New York City. Applications and fees must be forwarded to the Board by about the middle of May. By special consent the September examinations furnished to the college by the Board may be taken in Worcester. The University stands ready to consider on their merits the cases of more mature individuals whose education has been irregular or delayed through reasons beyond their control. Women are admitted to the graduate division and to advanced undergraduate courses in some departments.

Clark is a member of the New England College Entrance Certificate Board and all New England principals certifying to Clark assume responsibility to that Board.



CLARK BASEBALL TEAM, 1928

### Graduation

To obtain the degree of Bachelor of Arts a student is required to complete satisfactorily a total of 120 semester hours, exclusive of Physical Training; that is, the equivalent of five three-hour courses each semester for four years. No student's work is regarded as satisfactory and entitling him to graduation unless he ranks above the lowest quarter of those passing in at least three-fifths of his courses.

Students of ability are encouraged to finish the course in the shortest time consistent with good scholastic accomplishment. In furtherance of this a freshman is allowed to elect six courses on entrance and to continue with six as long as he averages in the upper half of his courses. He may indeed petition to carry additional work. No one, however, is permitted to complete his college course in less than three years. A system of credit bonuses encourages high grade work.

### Tuition, Room, and Board

Owing to the express desire of the founder that his generous endowment should be used to make a college education available to deserving young men, the expense of tuition has been kept at the relatively low figure of \$100.00 a semester. This includes \$10.00 for the support of various student activities, chiefly athletics and debating. At the request of the Student Body the Bursar collects \$5.00 additional each semester for the further support of student activities.

Other expenses are a \$5.00 matriculation fee and laboratory fees of \$5.00 a semester for science courses. The cost of books will approximate \$20.00 a year.

Undergraduates from out-of-town must board at Estabrook Hall and freshmen from out-of-town must room there. Board is \$7.50\* per week and room rent \$115.00 to \$150.00 per year for each occupant. The higher price is for a share of a two-room suite; the lower for a share of a single room. The rooms are furnished with a desk, chair, chiffonier, cot, mattress and pillow for each occupant. A deposit of \$25.00 is required as security against possible damage and to cover the cost of lighting. Students wishing to room together should so state, each making his own deposit. Rooms are reserved in order of application when accompanied by the deposit. The sketch on the opposite page shows the arrangement of the rooms.

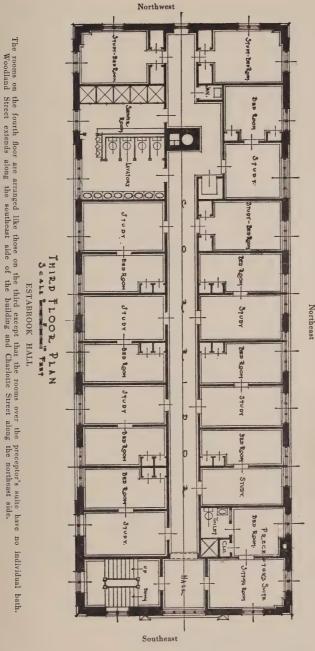
### Scholarships, Student Aid, and Self-help

No attempt will be made here to describe the fellowships and scholarships open to graduate students. Information concerning them may be obtained from the Registrar.

For undergraduates fifty Jonas G. Clark Memorial Scholarships are available for students of high academic standing, each yielding \$100.00. Twenty of these are awarded, on application, to entering freshmen who averaged in the upper quarter of their class for their preparatory school course. Of the freshman scholarships, eight are reserved for candidates from the Worcester High Schools and will be awarded preferably two to each of the four schools. These scholarships will generally be awarded early in August and applications must be received prior to that time to ensure consideration. For each of the three upper classes ten scholarships are reserved which may be granted to anyone averaging in the upper quarter of his class for the preceding year.

Sufficient loan funds are available to allow the continuance

<sup>\*</sup>May be raised to \$8.00 at any time.



(13)



Courtesy Worcester Telegram Cazette

### BIRD'S EYE VIEW OF CLARK UNIVERSITY

- 4. President's Residence
- Estabrook Hall
   Fanning Hall
   Dean's Residence

- 5. Faculty House
  6. Faculty Residences
  7. Faculty Tennis Court
  8. Jonas G. Clark Hall

- 9. Chemistry-Physics Laboratory
  10. Old Athletic Field
  11. Library Building
  12. Geography Wing of Library
  Building

The new athletic field is about five minutes' walk from the old athletic field

in college of deserving students. Spare time employment can usually be found in the city. In view, however, of the time required for the regular work of the College, only the exceptional student should expect to earn more than a limited part of his expenses, and as a general rule at least \$500.00 should be at the disposal of any man beginning a college course provided he cannot live at home.

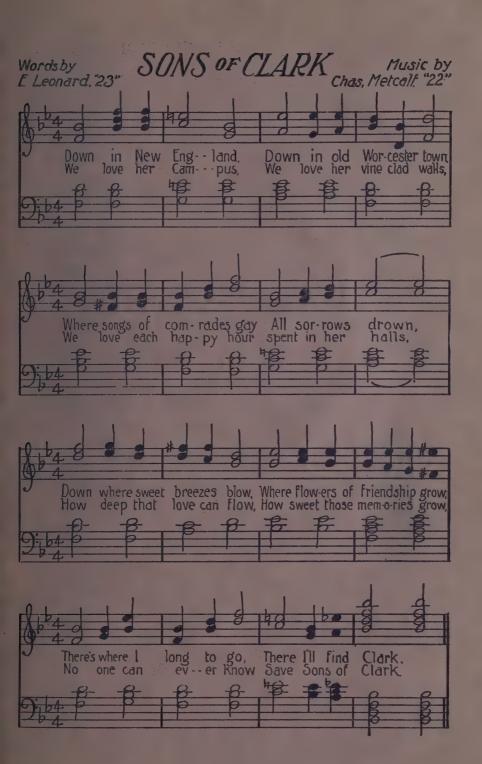
### College Life Outside the Classroom

Although Clark stands uncompromisingly for the idea that the intellectual life of the institution as developed by reading, study, and in the classroom is the prime object of college and must at all cost be put first, it is believed that by proper planning of his time a student may find abundant opportunity for a reasonable amount of extra-curriculum activity as well: therefore such recreations are encouraged. There are monthly "Bohemians" in Jonas Clark Hall, and two formal "Proms." The College supports a Glee Club and Orchestra, trained by a professional Musical Director, and a very successful Dramatic Association coached by a member of the English Department who takes especial interest in this type of activity. Debating has for a long time been notably successful at Clark, and was for a number of years the only type of intercollegiate activity in which the students engaged. The students publish the Clark Monthly, a magazine which gives opportunity for the publication of their literary productions and serves also as a forum for the expression of college opinion. A weekly newspaper, The Clark News, is now in its fourth year. There are four local and two national Greek letter fraternities, besides several special fraternities and organizations.

Clark has participated in intercollegiate athletics since 1919 and has been particularly successful in basketball. Rugby football is not played, but rapid advance has been made in soccer under competent coaching and the same is true of baseball.



CAMPUS SCENE



## For Further Information Address

The Registrar, Clark University
Worcester, Massachusetts

Published by the University in January, February, March, April, May, June. October, November and December NUMBER 70 November, 1920

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# Clark University Bulletin

Number 72

JANUARY, 1930

# The Summer School 1930

June 30—August 8

The Bulletin is published in January, February, March, April, May, June, October, November, and December

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# Schedule of Lecture and Recitation Hours

INSTRUCTOR	8	6	10	11	12	AFTERNOON
BRANDENBURG			Economics 2	Economics *5		
BROOKS						Geography *32
BURNHAM			Propries designation and the representation of the second	Geography 191	Geography 190	
ВУЕ	History 152		History 16			History 11\$
Howe		History *23		History *242		
Jones					Geography *283	Geography *283 Geo. 118, *34, *300
Коерре		Geography 12		Geography 122		Geography *32
LITTLE	Geology 1		The state of the s			
RIDGLEY	Geography *28	Geography 181				Geography 1804
SHIPMAN	Geography 14		Geography *285			
WHITE						Geography *204
GEOGRAPHY STAFF	FF					Geography *30†

NOTE: All the above courses are Summer School courses. The symbol "SS" before the numeral which distinguishes courses in Summer School from those given during the regular academic year, is omitted. \*Courses suitable for graduate credit. \$Friday afternoons and Saturdays, †Wednesdays at 3. \*Mondays, 3 to 5.

### Calendar

- June 30, Monday, 9 A. M. Registration begins.
  12 M. Opening Assembly.
  8-10 P. M. Reception to members of the Summer School.
- July 1, Tuesday, 8 A. M. Lectures and recitations begin.
- July 2, Wednesday, Transcontinental Field Trip begins.
- July 3, Thursday, 8:30 P. M. Open lecture. "Prehistoric Man, His Monuments and Art in France and Spain." Illustrated. Dr. Homer P. Little.
- July 10, Thursday, 8:30 P. M. Open lecture. "Cultural Contributions of the Original Settlers of Pennsylvania." Illustrated. Prof. Edgar C. Bye.
- July 17, Thursday, 8:30 P. M. Open lecture. "Economics for Today." Dr. Samuel J. Brandenburg.
- July 24, Thursday, 8:30 P. M. Open lecture. "Around the World with the First College Cruise." Illustrated. Dr. Douglas C. Ridgley.
- July 31, Thursday, 8:30 P. M. Open lecture. "Recent Travels in Northern South America." Illustrated. Dr. Clarence F. Jones.
- Aug. 7, Thursday, 8:30 P. M. Final Assembly. Conferring of degrees.
- Aug. 8, Friday. Summer session closes. 2 P. M., Washington-Richmond Field Trip begins.
- Aug. 9, Saturday, 8 A. M. Canadian and New England Field
  Trips begin.
- Aug. 22, Friday. New England Field Trip ends.
- Aug. 23, Saturday. Transcontinental and Washington-Richmond Field Trips end.
- Aug. 29, Friday. Canadian Field Trip ends.

All meetings will be held in the Jonas G. Clark Auditorium unless announcement to the contrary is given.

### COMMITTEE ON THE SUMMER SCHOOL

THE PRESIDENT OF THE UNIVERSITY
THE DIRECTOR OF THE SUMMER SCHOOL
MESSRS. BLAKESLEE, MELVILLE, MURCHISON

### Officers of Instruction and Administration

- Wallace Walter Atwood, Ph.D. Geography
  B.S., University of Chicago, 1897; Ph.D., 1903. President of Clark University and Director of the Graduate School of Geography.
- Douglas Clay Ridgley, Ph.D. Geography
  A.B., Indiana University, 1893; M.S., University of
  Chicago, 1922; Ph.D., Clark University, 1925. Director of the Summer School and Professor of Geography in Education, Clark University.
- CHARLES FRANKLIN BROOKS, PH.D. Meteorology and Climatology A.B., Harvard University, 1911; A.M., 1912; Ph.D., 1914. Professor of Meteorology and Climatology, Clark University.
- CLARENCE FIELDEN JONES, Ph.D. Geography B.S., University of Chicago, 1917; Ph.D., 1923. Professor of Economic Geography, Clark University.
- Julia Mary Shipman, Ph.D. Geography
  B.S. in Education, Boston University, 1920; A.M., Clark
  University, 1923; Ph.D., 1928. Instructor in Geography, University of Nebraska.
- CHARLES LANGDON WHITE, Ph.D. Geography
  B.S., Denison University, 1920; Ph.D., Clark University,
  1925. Head of Department of Geography, RandolphMacon Woman's College.
- CLARENCE EUGENE KOEPPE, Ph.D. Meteorology and Climatology B.S., Denison University, 1920; Ph.D., Clark University, 1927; Ph.D., 1929. Professor of Geography, State Teachers College, Springfield, Missouri.
- GUY H. BURNHAM, A.M.

  A.B., Clark University, 1916; A.M., 1922. Cartographer,

  Clark University.
- HOMER PAYSON LITTLE, PH.D.

  A.B., Williams College, 1906; Ph.D., Johns Hopkins
  University, 1910. Dean of the College and Professor
  of Geology, Clark University.

GEORGE FREDERICK Howe, Ph.D. History A.B., University of Vermont, 1922; A. M., Harvard University, 1923; Ph.D., 1930. Instructor in History, University of Cincinnati.

EDGAR C. Bye, A.M.

A.B., Haverford College, 1915; A.M., University of Pennsylvania, 1922. Professor of Social Studies, State Teachers' College, Shippensburg, Pennsylvania.

SAMUEL J. BRANDENBURG, Ph.D. Economics A.B., Miami University, 1904; Ph.M., University of Chicago, 1909; Ph.D., University of Wisconsin, 1922. Professor of Economics and Sociology, Clark University.

EUGENE C. BELKNAP Source Material in Economic Geography Curator, Department of Chemistry.

CAREY EYSTER MELVILLE

Registrar

FLORENCE CHANDLER

Bursar

### The Summer School at Clark University

Clark University is now laying special emphasis on fields of study that lead to a better understanding of national and international problems. Geography, Economics, and History and International Relations are of fundamental importance to all students interested in the solution of the larger problems now before the world.

These studies are essential in the training of teachers who recognize as their goal the development of the highest type of citizenship. A knowledge of the geographic environment and its influence upon human affairs, a knowledge of the history of peoples and of how they make a living, and a knowledge of economic principles and their application to national and world problems should help to dissipate fears and suspicions and lead in the end to a better understanding among the nations of the world.

Clark University, with its extensive equipment in library and map resources, offers to its Summer School students the full use of all facilities available for the undergraduate and the graduate divisions of the University during the academic year. The concentration of the Summer School courses in three closely related departments of study,—Geography, History, and Economics,—results in a student body of moderate size with ample opportunity for ready use of the resources of the University in these departments.

The work of the Summer School is intensive. Courses meet five times a week. Three courses are considered a full program. Many students will find it advantageous to concentrate all their energies on the work of two courses or even on a single course.

### LOCATION AND BUILDINGS

Clark University occupies a tract of ground lying between Main and Woodland and Maywood and Downing Streets in the city of Worcester, situated about a mile and a quarter from the City Hall. Trolley cars from the Union Station either run directly past the University or make connections at the City Hall with cars running south on Main Street which pass the University. Taxicab service is available at moderate price.

The office of the Summer School is located in the Jonas G. Clark Hall, which contains also the general offices of the University. Most of the exercises of the Summer School are held in this building. The office of the President of the University and the Geography Workroom are in the Geography Building where some classes are held.

In the Science Building are located the lecture room and laboratories of the departments of Physics and Chemistry.

All the classroom, library, and laboratory facilities of the University, so far as they pertain to the subjects of instruction offered, are at the disposal of students of the Summer School.

### THE LIBRARY

The Library of the University was provided with a generous endowment by the founder of the institution, and affords favorable opportunities for study and research. The Library now owns more than 134,000 bound volumes and pamphlets, and the Reading Room receives more than 500 journals. All the privileges of the Library are open to all members of the University, and each member has direct access to every book and journal.

In addition to the library facilities provided by the University, students may avail themselves of the privileges of other excellent libraries in the city. The Worcester Public Library contains some 245,000 volumes and makes accessible to the public about 600 newspapers and magazines. The educational books in the circulating department of the Public Library have been grouped together in a corner of the Delivery Room, where they may be inspected by persons interested. Teachers' magazines, with other interesting pedagogical material, may be consulted in the Children's Department and in the General Magazine Reading Room. The Library of the American Antiquarian Society, housed in the national headquarters of the Society in Worcester, contains more than 148,000 volumes, and some 223,600 pamphlets. In addition to the Society's valuable manuscripts of the Colonial period, it has an unequaled collection of books printed in America in the early period, and of American newspapers from 1660 to 1860.

### ADMISSION TO THE SUMMER SCHOOL

Graduates of colleges, technical schools, normal schools, or secondary schools, college students, and teachers in schools of any grade are admitted as a matter of course upon application. Other applicants are admitted upon approval of their qualification for the work which they desire to do.

Students in the Collegiate Division of Clark University who desire to have work done in the Summer School credited toward an A.B. degree are required to obtain the approval of the Collegiate Board.

### REGISTRATION

Persons who desire to enter the Summer School should detach and fill out the application form which is printed at the end of this BULLETIN and forward it, with the registration fee of two dollars, to the Registrar of Clark University. The amount of the registration fee will be deducted from the tuition fee when the latter is paid. Checks should be made payable to Clark University.

The registration of all students in all courses should be completed on June 30. To this end students should, as far as possible, determine before the opening of the session, through personal conference or correspondence with the Director, Registrar, or the various instructors, the courses in which they expect to register.

Formal registration will take place between 9 A. M. and noon on Monday, June 30, in Jonas G. Clark Hall. All instructors will be on hand for consultation and for signing registration cards between these hours. The opening assembly of the Summer School will be held in the Auditorium, June 30, at 12 o'clock. Class work will begin promptly on Tuesday morning.

### CREDIT FOR WORK DONE

Some of the courses of instruction in the Summer School are of college grade, others are strictly graduate courses, and many are equally suitable for advanced undergraduates or graduate students.

Unless otherwise announced, each course is designed to cover the equivalent of two semester hours of credit, and is so credited when applied toward a degree in Clark University.

A certificate, with a statement of courses taken and grades received will be furnished at the close of the session to all students who desire it. In order to obtain a prompt report, students should leave a stamped and addressed envelope at the Registrar's office during the last week of the session.

Summer School courses may be applied toward the fulfillment of the requirements for the degree of Bachelor of Arts, Bachelor of Education, or Master of Arts, subject to the general regulations of the University.

### THE BACHELOR OF ARTS DEGREE

Students who have been admitted to the Collegiate Department of the University may secure not more than six semester hours of credit toward the Bachelor of Arts degree in any one summer session on condition that permission be secured in advance from the Collegiate Board and that programs of study be approved by the Registrar.

### THE BACHELOR OF EDUCATION DEGREE

This degree is designed for teachers, both men and women, who have completed a two-year normal school course or its equivalent.

Candidates for this degree may complete the requirements by work in the Summer School, in Extension courses, Home Study courses or in other courses open to them under the regulations of the University. At least 30 hours of credit must be earned in residence at Clark University. The completion of 120 hours of college credit is required for this degree. The standard two-year course in a Massachusetts state normal school may usually be counted for 54 hours and certain specified requirements in particular subjects must be met. A special circular stating in full the requirements for the Bachelor of Education degree will be sent upon request. Correspondence concerning this degree is invited. Personal conferences with the Director or the Registrar during the Summer School will enable prospective candidates to arrange programs of study for succeeding summer sessions.

### THE MASTER OF ARTS DEGREE

The Summer School provides a sequence of graduate courses in successive summers whereby students who are formally admitted to the Graduate Division of the University may secure the degree of Master of Arts by devoting themselves exclusively to graduate study during a minimum period of one semester of the regular academic year, and three summer sessions, or their equivalent in field trips or other residence work, preparing an acceptable thesis, and passing a satisfactory oral examination. Courses intended for graduate credit are designated by an asterisk (\*) in the announcement of courses in this BULLETIN. All programs of work to be applied toward the requirements for the degree of Master of Arts must be approved in advance by the major department concerned.

Early correspondence is requested by all who wish to begin work for graduate credit.

### TUITION AND FEES

Students taking two or more courses pay a fee of thirty-five dollars; those who desire to take but one course may do so upon payment of a fee of twenty dollars, which entitles them also to all special privileges of the Summer School. The same charge is made whether students register as auditors or for credit. For a statement of fees for Field Trips conducted by the Department of Geography, and the Department of History, see pages 22 to 27.

Students registering in the Summer School who have not previously been enrolled in Clark University are required to pay a matriculation fee of five dollars. This fee is paid only once and is not returnable.

Tuition may be paid at any time before noon of Saturday, July 5. Checks should be made payable to Clark University.

### BOARD AND ROOMS

The rooms in the college dormitory, Estabrook Hall, will be available for women students during the Summer School. These rooms are exceedingly attractive and are furnished with everything necessary except bedding. The Hall is very conveniently located. A number of two-room suites for two persons rent for \$4 per week, per occupant. One person may secure a two-room suite for \$7 per week. A few large rooms, each suitable for two persons, are rented at \$3 per week, per occupant; for one person, \$5 per week. Bedding will be provided for an additional charge of \$1.50 per person, per week. Early correspondence is invited. Good rooms may be had in private homes near the University. The Dining Room is located in Estabrook Hall and table board will be provided for members of the Summer School at \$8 per week.

The Faculty House, on Woodland Street across from the University, and one or more of the college fraternity houses will probably be available for the accommodation of a limited number of Summer School students.

### **OUTSIDE ACTIVITIES**

It is the intention of the Summer School not only to provide a daily program of serious work, but to afford the students and instructors opportunities for relaxation and enjoyment as well. Among these are courses of public lectures, entertainments, and excursions to places of scientific or historic interest. The working schedule has been planned so that those who desire to take advantage of the excursions or to visit Boston or other neighboring cities at week-ends may do so without detriment to their regular work.

The University Gymnasium and the Maywood Street tennis courts provide opportunity for both indoor and outdoor exercise. The summer climate of Worcester is pleasant; periods of excessive heat are rare; and Lake Quinsigamond, at the edge of the city and easily accessible by trolley, offers excellent facilities for boating and canoeing. Coes Pond, within easy walking distance of the University, is a favorite resort of summer bathers.

### EXCURSIONS

Saturday and afternoon excursions conducted by members of the Summer School staff have been instructive and enjoyable features of past sessions. Some of the points visited have been Mt. Wachusett, Mt. Monadnock; the Connecticut valley including Mt. Tom; Plymouth; Provincetown; Boston, Salem and Marblehead, the Wayside Inn; Lexington and Concord, Cohasset, famous for its carillon.

In previous summers, excursions were made to some of Worces-

ter's industrial plants, including the Crompton and Knowles Loom Works, the American Steel and Wire Company's South Works, the Whittall Rug Factory and the Norton Company.

For the coming session trips will be planned to suit the interests of the student body.

### ILLUSTRATIVE MATERIALS

Mr. Eugene C. Belknap, Curator, Department of Chemistry, will provide a selection of literature, pictures, and specimens appropriate for use in geography teaching. Members of the Summer School should visit the exhibit early in the term in order to appreciate its value and to select material of specific value in their teaching. This material forms the basis of the laboratory exercises in the course on "Visual Aids in Geography and History."

### THE SUMMER SCHOOL ASSOCIATION

The Summer School Association was organized by the students at the first session of the Summer School in 1921. The Association promotes the social activities of the school during the summer session and holds an annual reunion during the year. Every student is urged to participate in the activities of the Association as they develop during the term.

### NEW YORK STATE CLUB

In 1928 the members of the Summer School from New York State organized the New York Club of Clark University. The Club will hold its first meeting of the summer session of 1930 at 2 P. M., Monday, June 30, in Room 120, first floor of Jonas G. Clark Hall. All members of the Summer School from New York State are requested to be present.

### SUMMER TOURIST RAILROAD RATES

Summer Tourist Railroad Rates from places west of Chicago are in effect from June to October. These rates offer a substantial reduction in transportation costs whether the tickets are for round trip rates over the same railroads or for return by a different route. Round trip tickets are usually made out for Marblehead, Massachusetts. Stop-over privileges are allowed at Worcester. The trip to Marblehead and return to Worcester may be made during the Summer Session. Inquiry should be made at local ticket offices well in advance of the date of starting.

### THE SUMMER SCHOOL ROSTER

The names of students of the Summer School, with their home addresses, will be found in the General Catalogue of the following academic year. Students who desire a list should write to the University after February 1, of the following year.

### DEPARTMENTAL ANNOUNCEMENTS

The right is reserved to withdraw any course listed in the event of a registration too small to justify its being given.

Courses marked with an asterisk (\*) are primarily for advanced students.

### **GEOGRAPHY**

The courses in geography announced here include undergraduate and graduate courses in the several phases of the subject. Certain fundamental courses are offered every summer. Others are given every other year or occasionally. At any summer session, however, courses not regularly planned for that summer may be given if there is a demand and if a reasonably large class is assured.

Students whose assignments involve the preparation of maps or who wish to practice map-making will appreciate the opportunity for special help by the cartographer, Mr. G. H. Burnham, in the Geography Workroom.

\*SS28. Geography in Education for Special Teachers. This course is designed to meet the needs of geography teachers who wish to work specifically on their individual problems. Special topics will be developed and the results presented in class. Members of the class may develop full details for the presentation of a course in geography for a single year, or for courses for elementary school, junior high school, senior high school, normal school, or college. Lesson plans and topics of individual interest may be developed in detail. A wide variety of problems gives interesting side lights to many phases of the geography curriculum of value to all. The library and geography workroom are well equipped for the pursuit of this course. A few local field lessons will be given, and opportunity will be offered for the examination of printed matter and museum specimens available for the course in "Visual Aids in Geography and History."

Daily, except Saturday, at 8.

Dr. RIDGLEY

SS181. The Teaching of Geography. A discussion of the scope and purpose of geography. A comparative study of recent courses in geography. Methods of presentation suitable for elementary school and junior high school, including the journey lesson, the problem method, projects in geography, and the type study method. Standard equipment for geography teaching. Local field lessons and their application to the various grades. Wide library

reading. Consideration of the effective use of pictures, maps, and printed matter in text-book and reference books. A comparative study of available tests in geography.

The library contains an extensive collection of recent books for teachers and pupils, and the geography workroom offers exceptional opportunities for the making of maps for classroom use. Much of the library reading may be selected with direct reference to the needs of next school year. Opportunity will be given to examine the printed matter and museum specimens available for the course in "Visual Aids in Geography and History."

Daily, except Saturday, at 9.

Dr. RIDGLEY

SS180. Visual Aids in Geography and History. A laboratory course in the preparation of materials for use as visual aids in instruction. The study of materials and literature. The collecting, classifying, and study of printed matter available on industry, travel, and geographic and historical conditions. The selecting of raw materials and manufactured products available which have been collected from all parts of the world and mounting them, together with descriptive literature, into permanent exhibits for classroom use. Teachers prepare the exhibits for their own lecture and classroom work. The laboratory work will be suited to the individual needs of the members of the class; abundant material is available to aid teachers of geography, history, English, general science, and home economics to prepare visual aids for their particular subjects. Each student will have opportunity to develop one or more projects. The selection and use of lantern slides and stereographic views will be discussed. Manipulation of the lantern to obtain best results will be demonstrated, and practiced by members of the class. There will be group conferences and individual instruction. Enrollment is made by obtaining approval of Dr. Ridgley and assignment of laboratory space in the Chemistry building by Mr. Belknap.

Laboratory work daily, at convenience. Group conference Mondays, 3 to 5 P. M., beginning June 30, in Chemistry Lecture Room.

Dr. Ridgley and Mr. Belknap

\*SS283. Caribbean America. A lecture course on the geography of Mexico, the Central American states, and the islands bordering the Caribbean Sea; the historical background of the republic and islands of the Caribbean; the major geographic regions of the different countries; the economic positions of the republics and islands; economic and other problems facing the various regions; the expansion of the United States into the Caribbean; the commercial

importance of the various republics and islands as a market for manufactured wares and as a source of foodstuffs and raw materials; the period of each Friday will be devoted to an illustrated lecture. Each student will work out one special project to hand to the instructor not later than Monday of the sixth week.

Daily, except Saturday, at 12.

Dr. Jones

Field Work in Geography. To meet a demand for reconnaissance and detailed field training in Geography this field course consists of two distinct, but closely related parts: (1) a study of the industrial geography of Worcester, including detailed mapping of industrial areas and conferences in field and classroom to analyze the relation of the physical conditions to the city plan and the local industries; and (2) reconnaissance field studies of regions in southern New England; the Connecticut Valley, the Blackstone Valley and Buzzards Bay: Sudbury and Boston Basins and the Port of Boston: Mount Monadnock and the New England Upland. Connecticut Valley trip will occupy two days, July 4 and 5. other trips will be on Saturdays of the second, third, and fourth weeks. The course is divisible. Students who wish may take the detailed local field study for one hour of credit; or the Saturday field trips for one hour of credit. Students who do not register for credit may join the Saturday field trips with profit. Transportation costs for those who take the five days of reconnaissance field study \$15.00; for single trips \$3.50 per person.

Students who register for the detailed local field study must reserve Thursday afternoon of the first week and Friday afternoons of the four succeeding weeks. Those who register for the reconnaissance work must reserve Friday and Saturday of the first week and Saturday of the three succeeding weeks.

brighed only Dr. Jones

SS14. Economic Geography. This is an introductory course with no prerequisites. It is planned as a basis for further studies in economic geography, general geography, or as a general cultural background course. A survey will be made of some of the major regions of the world showing wherein man's economic activities and utilization of the earth are influenced by his geographic environment. Some specific problems in changing trends in food supply will be included, also a discussion of the present economic outlook in New England. Among the topics considered will be the distribution of such agricultural products as wheat, corn, rice, soy bean, fruits, cocoa, and animal foods. The sources of some of the most used minerals as iron, coal, oil, copper and aluminum will

be considered, and a few of the great transportation routes over which such commodities move will be studied. This course will suit the needs of teachers of all grades for a wider knowledge of the fundamental facts of geography. It will apply specifically to the needs of teachers of junior and senior high school geography.

Daily, except Saturday, at 8.

DR. Shipman

\*SS285. Geography of Europe. A general survey of the physiography, climate, and resources of Europe as a basis for understanding the economic development. Particular attention will be given to countries which were organized during or following the World War, and to those older countries which have had a marked change in territory or government. Certain geographic factors which aided in making Europe the leading continent will be considered as well as some of the present-day problems of central Europe and of the Pan-Europe movement. The course should be useful to teachers of European geography and history, and to college students and others who wish to become acquainted with the new map of Europe and to be able to read current newspaper and magazine articles understandingly.

Daily, except Saturday, at 10.

Dr. SHIPMAN

SS12. Weather. This course deals first with the simple weather elements which may be observed under any conditions from day to day, and second with a study of the weather processes with a view to their application to the study of geography in general and of climate in particular. It presupposes that the student has had no special training in meteorology, physics, or mathematics; yet, it is so planned that the more scientifically inclined student may pursue the subject with a maximum of profit. This course should ordinarily be taken before Geography SS122.

Daily, except Saturday, at 9.

Dr. Koeppe

SS122. Climate. The course takes up first a study of the various climatic elements and controls and their application to continental, marine, mountain and plateau climates. This is followed by a consideration of the world distribution of temperature, pressure, winds, and precipitation. About half the time will be given over to regional climatology based on types of climate. Throughout, considerable attention will be given to the reduction and graphic representation of climatic data. Although there is no prerequisite for this course, some students will find it to their advantage to pursue first Geography SS12.

Daily, except Saturday, at 11.

Dr. Koeppe

SS191. Graphics and Cartography. This course will aim

to help teachers to a better understanding of graphic methods and map projections. Some time will be spent in the construction and discussion of charts, graphs, and diagrams, but the major part of the course will be devoted to cartography. The more important map projections will be drawn and their advantages and disadvantages discussed. This work will be supplemented by a survey of the map and atlas collection in the Geography Workroom.

Daily, except Saturday, at 11.

Mr. Burnham

SS190. Mathematical Geography. A study of the earth's relations to the sun, moon, and other heavenly bodies and their influence on human life. The seasons, changing length of day and night, latitude, longitude, time, and the calendar, receive attention. The principal constellations will be observed and studied. Methods of presentation suitable to junior high school pupils. For teachers who wish to obtain content and method for presenting effectively those phases of mathematical geography essential to a clear understanding of the human aspects of geography.

Daily, except Saturday, at 12.

Mr. Burnham

\*SS30. Seminar in Geography. A report and discussion seminar for advanced students in geography; reports on research problems and theses; attendance required of all students working on theses or registered for research in any geography course. Students taking seminar should have problems selected, ready for announcement at the first meeting.

Wednesday, at 3.

THE GEOGRAPHY STAFF

\*SS34. Research in Economic Geography. For properly qualified students.

Dr. Jones

\*SS300. Research in Regional Geography. For properly qualified students.

Dr. Jones

\*SS32. Research in Climatology. For properly qualified graduate students.

Dr. Brooks or Dr. Koeppe

Teachers and students of geography who wish a broader knowledge of United States history or of economic conditions of Western Europe will find interest in the following courses in History and Economics.

History \*SS23. American Social History.

Dr. Howe

History \*SS242. History of the west since 1812.

Dr. Howe

Economics \*SS5. Economic History of Western Europe.

Dr. Brandenburg

For Field Trips see pages 22 to 27.

### HOME STUDY COURSES IN GEOGRAPHY

Clark University is now offering Home Study Courses for the benefit of those interested in the study and in the teaching of geography. These courses may be begun at any time and pursued as rapidly as opportunity for study affords. Many teachers pursue these home study courses during the school year while teaching. Other teachers who have not found convenient opportunity to attend summer school have made rapid progress in home study work while at home during the summer vacation. Each course carries three semester hours of college credit toward the Bachelor's degree at Clark University. The tuition fee for each course is \$18. As soon as the tuition fee is received the complete set of lessons is forwarded. A bulletin describing all courses offered will be sent on request. Sample lessons of one or two courses will be sent on request. Address: Clark University, Home Study Department, Worcester, Massachusetts.

The following Home Study Courses are now ready:

### Courses on the Teaching of Geography

- 1. The Teaching of Geography in the Elementary School.
- 1a. The Teaching of Geography Based on the New York State Syllabus, Grades 3, 4, 5, and 6.
  - 2. The Teaching of Home Geography and World as a Whole.
- 2a. The Teaching of Third Grade Geography of the New York State Syllabus.
  - 3. The Teaching of North America.
  - 4. The Teaching of South America, Europe, and Asia.
- 5. The Teaching of Geographic Factors and the United States in its World Relations.

### Academic Courses in Geography

- 6. Industrial and Commercial Geography.
- 7. Geography of North America.
- 8. Geography of South America.
- 9. Geography of Europe.
- 9a. Home Study Course for European Travel.
- 10. Geography of the Eastern Continents.
- 11. The Physical Geography of the Lands.

- 12. Weather.
- 13. Elements of Climatology.
- 14. Climates of the World.
- 15. Climatology of the United States.
- 16. Mathematical Geography.
- 17. Graphics and Cartography.
- 18. Special Studies in Geography.

Special attention of teachers and students who cannot attend Summer School is called to the opportunity offered by these home study courses to secure the same amount of college credit through home study courses as through the regular summer school period. Two home study courses give the same amount of college credit as the regular program of the summer school session. By enrolling early for a home study course, plans can be made for prompt and steady progress immediately at the beginning of the summer vacation. The completion of one or two home study courses during the summer can be readily accomplished.

### **GEOLOGY**

SS1. Physical Geology. About one third of this course will be given over to a study of the common minerals and rocks which one is likely to see on cross-country tramps or to have brought into the school room for identification. The balance of the course will be spent in a systematic study of the work of wind, water, ice, and sub-surface forces, in modifying the surface of the earth. The course may best be summarized as a scientific study of the origin of scenery. Special emphasis will be placed in the laboratory on obtaining mastery of the topographic map.

Four lecture-recitation periods at 8 and one afternoon laboratory period weekly.

DR. LITTLE

### HISTORY

\*SS23. American Social History, 1776-1900. This course is designed to supplement a general knowledge of American history. Attention is directed to the non-political aspects of American life with the object of understanding the background of contemporary social conditions. Such topics as typical economic pursuits, urbanization, education, artistic attainments, scientific investigation, religion and morals, social philosophy and humanitarian reforms, travel and recreation will be considered. They will be dealt with in lectures, assigned readings, and short papers.

Daily, except Saturday, at 9.

Dr. Howe

\*SS242. History of the West since 1812. The movement of population across North America from the Atlantic seaboard to

the Pacific coast is the theme of this course. The more important effects upon the whole country resulting from the successive occupation of the interior provinces will be examined and attention will also be given to unique frontier social institutions. After a consideration of the western aspects of the War of 1812, the course will take up such topics as Indian policies, land laws, political organization, exploration, mining rushes, range and ranch cattle grazing, railroad building, Populism, and international problems arising from westward expansion. There will be a text, supplemented by readings, on which short papers will be based.

Daily, except Saturday, at 11.

Dr. Howe

SS152. Introduction to Political Science. This course is a general survey of the nature, structure, and functions of government. It should be especially useful to teachers of history or other social studies in junior and senior high schools and to others interested in current world history and political problems. The essential problem of the course is the relationship between the machinery of government and human welfare. Among the problems studied are current theories as to the origins and functions of government, the problem of sovereignty, the nature of law, public opinion, the suffrage, political party systems, constitutions, federal and unitary forms of government, parliamentary and presidential forms of government, representative government, the bicameral system, comparisons of the executive, legislative and judicial systems of England, France, and the United States, the nature and history of international negotiations, the beginnings of the international state and efforts to establish world peace. The course may be taken separately with advantage or as one of a sequence of courses to be given in successive summers, the other two courses being Introduction to American Government and Political Parties and Practical Politics. Daily, except Saturday, at 8. PROFESSOR BYE

SS16. The Teaching of History. This is a practical course in methods of teaching history for teachers or prospective teachers and supervisors. Emphasis will be laid upon junior and senior high school work, but teachers in any grade will find the course helpful. The topics discussed include the pupil, the teacher, the objectives, the content, the teaching, and the testing. Practical problems, such as supervised study, the various types of recitation, socialized methods, projects, devices and aids, dramatization, the selection and use of books, drill and review, tests and current history teaching are studied through readings, reports, and discussions. The technique of history teaching is viewed as direction of learning rather than

the imparting of information. An extensive bibliography for immediate use and future reference is provided and the course is conducted in a classroom containing a very complete exhibit of materials used in the teaching of the social studies. The student has the opportunity of becoming familiar through actual contact with maps, textbooks, notebooks, syllabi, games, pictures, standardized tests, current events materials, publications for history teachers, and other aids for the teaching of history.

Daily, except Saturday, at 10.

PROFESSOR BYE

SS11. Observational History of Massachusetts. This field work course is particularly designed for teachers of American history and literature. It affords a unique opportunity to learn through direct contacts the significance of the leading events of colonial and revolutionary history, so many of which occurred in this region. Teachers from all parts of the country should find this course especially valuable in 1930 because of the special New England Tercentenary celebrations throughout the area studied. The class meets for a two hour period every Friday afternoon for study and discussion in classroom or library and devotes all day Saturday of each week to work in the field. Transportation is by modern, comfortable motor coach and will cost \$15 for the five trips. Persons who do not wish to take the course for credit may join any of the Saturday trips, if there are vacant seats, on payment of \$3.50 per person per trip. The field studies are as follows:

Field Study No. 1. The Pilgrims and the South Shore. Provincetown, Cape Cod, Plymouth, Duxbury, Marshfield, Hingham, Quincy, Dedham. The main subject of study will be the Plymouth Colony and its expansion. Daniel Webster's grave and the Edward Winslow house in Marshfield, the old Ship Meetinghouse in Hingham, the Adams houses and tombs in Quincy and the Fairbanks house in Dedham will also be visited. This is a two-day trip, July 4 and 5. On the first day a direct run will be made to Provincetown with a return to Plymouth for the night. A careful historical study of the region from Plymouth to Dedham will occupy the second day. This trip fulfills the requirement of members of the party enrolled for credit for two of the five days of field travel. Persons not enrolled for credit may join the party by payment of \$6.50 for cost of transportation. Since this is a two-day trip, Field Trip No. 5 will be made optional, and will be given as outlined if a sufficient number desire it at an additional cost of \$3.00 per person for transportation.

Field Study No. 2. The Puritans and the North Shore.

Danvers, Salem, Marblehead. The beginnings of the Massachusetts Bay Colony, the witchcraft delusion, Hawthorne's Salem, and the maritime and revolutionary significance of Salem and Marblehead will receive attention on this trip.

Field Study No. 3. The Puritan Pioneers in the Connecticut Valley. Springfield, Northampton, Hadley, Amherst, Deerfield. The theme of this study will be the expansion of New England, particularly life on the Connecticut valley frontier. The geographic and scenic features of this trip are especially interesting.

Field Study No. 4. Colonial and Revolutionary Boston. A further study will be made of the settlement of the Massachusetts Bay Colony, but emphasis will be placed upon the genesis of the American Revolution. Certain aspects of modern Boston, including the Library and the Art Museum, will be included.

Field Study No. 5. Beginnings of the Revolution and the New England Renaissance. Cambridge, Lexington, Concord, Sudbury. In this incomparably rich historical and literary environment, a study will be made of the first hostilities of the Revolution and of the homes of the great New England writers.

Friday afternoon and all day Saturday. Professor Bye

Teachers and students of History will find interest in the following courses in Geography and Economics.

Geography \*SS283. Caribbean America.

Dr. Jones

Geography \*SS285. Geography of Europe.

Dr. SHIPMAN

Economics \*SS5. Economic History of Western Europe.

Dr. Brandenburg

For Field Trips see pages 22 to 27.

### **ECONOMICS**

SS2. Problems of Economics. This course is complementary to Economics SS1 offered in the summer of 1929. The latter course stressed fundamental economic principles which underlie the production, valuation, and distribution of economic goods; the present course will take up specific economic problems such as wages, standards of living, ideals, and practices of organized labor, transportation, banking and credit, taxation and other topics of historical and contemporary interest. The topics are selected not merely to illustrate economic principles, but also for the purpose of building up a better understanding of modern economic society. The course

should be illuminating to teachers of economics, sociology, civics, history and current events, as well as to those with a less specialized interest in our economic and social life.

SS1 and SS2 may be taken separately; students wishing to take both parts may begin with either 1 or 2.

Daily, except Saturday, at 10.

Dr. Brandenburg

\*SS5. Economic History of Western Europe. This course surveys the development of economic structure and activities from the Industrial Revolution to the present time; attention centers chiefly on Great Britain, Germany, and France. Changes in the methods and processes of the major industries are studied with as much detail as time permits; emphasis is placed on: (1) new or intensified economic and social problems emerging from these industrial changes, such as population increase and concentration, urbanization, food supply, raw materials, markets; (2) public and private policy and methods of organization designed to cope with these problems; (3) the changed conditions and insistent problems, with the new policies and proposed solutions of the post war period.

An understanding of economic principles and a general knowledge of history of the regions studied are desirable as a background for the course. Graduate credit may be earned by properly qualified students.

Daily, except Saturday, at 11.

Dr. Brandenburg

### FRENCH AND GERMAN

While no provision is made for regular courses in French and German, students who wish to pursue either or both of these languages during the Summer Session may make arrangements to do so. A skilled instructor is available for lessons in French and German to individuals or groups at moderate cost. The lessons, if desired, will be given at the University. The work in these languages will be adapted to the individual needs of the students whether for elementary or advanced work, or for a reading knowledge of scientific works. Further information will be given on request.

### FIELD TRIPS IN GEOGRAPHY AND HISTORY

The field trips of 1930 are a continuation of a plan inaugurated by Clark University Summer School in 1924, for the study of geography and history out-of-doors. Field trips by motor coach have been conducted each summer during two or three weeks following the summer session. In 1928 the First Transcontinental Field Trip was conducted during the summer session; the Third Transcontinental Field Trip is planned for 1930. The field trips of 1930 have been organized to continue some of the offerings of established interest,

and to introduce other trips of special interest to teachers and students of geography and history.

\*SS204. Transcontinental Field Trip. The members of the Transcontinental Field Trip will assemble at Clark University on Monday, June 30, for preliminary conferences. The party will leave by special modern motor coach, designed for transcontinental travel, on Wednesday, July 2, for a journey of more than 8500 miles during a period of 53 days, closing the trip at New York City.

The route passes through Niagara Falls, Chicago, Yellowstone Park, Salt Lake City, San Francisco, Yosemite Park, Los Angeles, Grand Canyon Park, Washington, D. C., Baltimore, to New York City.

Arrangements are being made for observation of the ore docks at points along the Great Lakes; the chief points of interest in Chicago; the irrigation farming and industrial development in the vicinity of Salt Lake City; the scenes of geographic and historic interest at Sacramento, San Francisco, Los Angeles, and other cities along the route.

Special arrangements are being made at the Yellowstone, Yosemite, and Grand Canyon National Parks for the personal guidance and instruction of park naturalists while the party is in the parks.

The instruction day by day will enable members of the party to observe and interpret the physiography, the agriculture, the industries, and the human geography of the regions traversed. Field notes will be taken and organized into a systematic report. Interested participation in the field trip and satisfactory field notes will give six semester hours of college credit, and will be so credited when applied toward a degree in Clark University. The field notes may be submitted at the close of the trip, or as soon thereafter as convenient. A certificate, with a statement of the course and grade received, will be furnished soon after the instructor's report is filed with the Registrar. Two additional hours of credit will be granted for a satisfactory report on some phase of the field trip acceptable to the instructor. This report is due on or before January 15, 1931.

This trip will be in charge of Dr. Langdon White, Professor of Geography, Randolph-Macon Woman's College, Lynchburg, Virginia. Mrs. White will accompany the party as chaperone. Dr. White is well acquainted with the entire route of travel and has done intensive field work as a geographer in the Salt Lake City region, along the shores of Lake Erie, in Chicago and vicinity, and elsewhere along the route.

The cost of the trip is \$600, including tuition, transportation by motor coach from Worcester back to New York City, hotel and

meals while on the trip. A payment of \$50 is made at time of enrollment. The balance is payable on or before May 5, 1930. Reservation, without payment, will be made on request, and definite enrollment will follow on payment of \$50. Make checks payable to Douglas C. Ridgley, Director Clark University Summer School.

Send to Clark University or to the instructor for printed circular with day by day itinerary. Early correspondence and enrollment are requested, as final arrangements must be completed by June 1.

### FIELD TRIPS FOLLOWING THE SUMMER SESSION

Three field trips are offered immediately following the Summer School. One will be of 16 days duration, one of 14 days, and one of 21 days. For the trips of 14 days and 16 days duration a credit of two semester hours will be granted for satisfactory field notes. An additional hour of credit will be granted for the preparation of a special report on some phase of the field work acceptable to the instructor. This report is due on or before January 15, 1931. For the field trip of 21 days duration a credit of three semester hours will be granted for satisfactory field notes and an additional hour of credit for a satisfactory special report submitted by January 15, 1931.

Early correspondence is invited, as final arrangements must be completed early in July.

New York-Philadelphia-Washington-Richmond Field Trip. Friday, August 8, 2 P. M. to Saturday, August 23, 16 days. This course affords an opportunity to study by direct observation the history and geography of the Atlantic coastal region and eastern highlands from the Connecticut to the Tames including portions of eight states. This historically rich territory covers all the important areas of original settlement, including Puritan, Dutch, Quaker, Swedish, Welsh, Pennsylvania German, Scotch-Irish, Catholic and Cavalier: Revolutionary landmarks such as Washington's Crossing, Valley Forge, Brandywine, Independence Hall and Yorktown; Fort McHenry, the place where "The Star Spangled Banner" was written; high points of the Civil War such as the Fredericksburg region, the Confederate Capitol, John Brown's fort, and the Gettysburg battlefield; the homes or graves of Irving, Poe, Hamilton, Arnold, Franklin, Betsy Ross, Barbara Fritchie, Washington, Francis Scott Key, Thaddeus Stevens, Buchanan, Lee, Grant, and Jefferson Davis; and United States government establishments such as the Philadelphia mint and navy yard, the academies at Annapolis and West Point, the Capitol, White House, Lincoln Memorial and other points of interest in the District of Columbia. Two semester hours of credit may be earned and an additional hour by the preparation of an acceptable special study based on field work and research. The route: Worcester, Hartford, New Haven, Tarrytown, New York (3 days), Princeton, Trenton, Philadelphia (3 days), Baltimore, Washington (3 days), Fredericksburg, Richmond, Jamestown, Yorktown, Luray Caverns, Harper's Ferry, Frederick, Gettysburg, Lancaster, Ephrata, Bethlehem, Delaware Water Gap, West Point, Storm King Highway, Albany, Williamstown, Mohawk Trail, Worcester. The party will leave Clark University at 2 P. M., Friday, August 8, and return to Worcester, Saturday, August 23.

This trip will be in charge of Professor Edgar C. Bye, Instructor in History in the Clark University Summer School, Professor of Social Studies, State Teachers College, Shippensburg, Pennsylvania.

The cost of the trip is \$15 for tuition and \$70 for transportation. Payment of tuition and transportation is made to Clark University. A payment of \$15 is made at time of enrollment. The balance, \$70, is payable on or before July 15. Reservation, without payment, will be made on request, and definite enrollment will follow on payment of \$15. Make checks payable to Douglas C. Ridgley, Director of Clark University Summer School. Each person will pay for his own hotel and meals. Hotel reservations will be made in advance. Cost of hotel and meals should be well under \$5 per day.

Send to Clark University or to the instructor for printed circular with day by day itinerary.

New England Field Trip for New York State Teachers. Saturday, August 9, to Friday, August 22, 14 days. The enthusiastic interest of the members of the 1929 field trip conducted by Clark University Summer School for New York State teachers assures interest in the announcement for another trip in 1930. Since 1930 is the Tercentenary of the founding of the Massachusetts Bay Colony at Boston, it seems appropriate to visit New England. The route of 2,000 miles lies through scenes of great geographic and historic interest. The six New England states are included in the itinerary, and the centers of chief historic interest in New England will be visited.

The itinerary includes Oswego and Troy, in New York, Williamstown, Mass., Rutland, Vt., Hanover and Mount Washington, in New Hampshire; Auburn, Bangor, and Portland in Maine; Boston, Gloucester, Salem, Marblehead, Lexington, Concord, Wayside Inn, Worcester, Plymouth, Provincetown, New Bedford, and Fall River in Massachusetts; Newport and Providence in Rhode

Island, the Connecticut Valley with its succession of important cities in Connecticut and Massachusetts.

This trip is in charge of Mrs. Isabelle K. Hart, Instructor in Geography, State Normal School, Oswego, New York. The party will leave the Oswego Normal School at 8 A. M., Saturday, August 9, and return to Oswego, Friday, August 22.

The cost of this trip is \$15 for tuition and \$60 for transportation. Payment of tuition and transportation is made to Clark University. A payment of \$15 is made at time of enrollment. The balance, \$60, is payable on or before July 15. Reservation, without payment, will be made on request, and definite enrollment will follow on payment of \$15. Make checks payable to Douglas C. Ridgley, Director Clark University Summer School. Each person will pay for his own hotel and meals. Hotel reservations will be made in advance. Cost of hotel and meals will probably not exceed \$60.

Send to Clark University or to the instructor for printed circular with day by day itinerary.

Canadian Field Trip for Connecticut Teachers. Saturday, August 9, to Friday, August 29, 21 days. The enthusiastic interest of the members of the 1929 field trip conducted by Clark University Summer School for Connecticut teachers assures interest in the announcement for another and more extended trip in 1930. The route of 2,500 miles leads through scenes of great geographic and historic interest in five New England states and three Canadian provinces. The itinerary includes New Britain, Conn., Providence, R. I., Plymouth, Boston, and Salem in Massachusetts; Portland, Bangor, and Calais in Maine; St. John, Halifax, and Quebec in Canada; White Mountains and Merrimac Valley in New Hampshire; Lexington, Concord, and Worcester in Massachusetts.

This trip is in charge of Professor George F. Howe, Head of the Geography Department, State Normal School, New Britain, Connecticut. The party will leave the New Britain Normal School at 8 A. M. Saturday, August 9, and return to New Britain, Friday, August 29.

The cost of this trip is \$20 for tuition and \$100 for transportation. Payment of tuition and transportation is made to Clark University. A payment of \$20 is made at time of enrollment. The balance, \$100, is payable on or before July 15. Reservation, without payment, will be made on request, and definite enrollment will follow on payment of \$20. Make checks payable to Douglas C. Ridgley, Director Clark University Summer School. Each person will pay for his own hotel and meals. Hotel reservations will be made in advance. Cost of hotel and meals will probably not exceed \$80.

Send to Clark University or to the instructor for printed circular with day by day itinerary.

Note. The right is reserved to withdraw any of these trips if a sufficient number of advance registrations is not received.

Preliminary Announcement of Caribbean Field Trip—Summer, 1931. During eight weeks of the summer of 1931 Dr. and Mrs. Clarence F. Jones will conduct a field trip in the Caribbean. Areas scheduled for study include the Lesser Antilles, the Caracas-Valencia region of Venezuela, Curaçao, the Sierra Nevada Banana-and-Coffee Regions of Northern Colombia, and the Panama Canal Zone. Early correspondence is invited from those who are interested in such a trip as reservations for transportation must be made well in advance of the date of sailing. Dr. Jones has done field work in all the areas during the summer months. Address inquiries to Clark University Summer School or to Dr. Clarence F. Jones.

#### CREDIT FOR FIELD TRIPS

Field trips of two weeks duration are designed to cover the equivalent of two semester hours of credit; the trip of three weeks duration, three semester hours of credit; and the Transcontinental Trip, six semester hours of credit. These trips are so credited when applied toward a degree in Clark University. This credit is increased by one hour for the field courses of two weeks or three weeks duration, and by two hours for the Transcontinental Field Trip, by the preparation of an acceptable geographic study of some phase of the field studies in form and extent satisfactory to the instructor. This written report is due on or before January 15, 1931.

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If you are not a graduate of a college, technical, normal or secondary school, not a college student, and not a teacher, send a letter with this appli-

The work for credit involves the preparation of the field notes under the direction of the instructor, and such preliminary reading and study as may be outlined by the instructor. A certificate, with a statement of the course and grade received, will be furnished soon after the instructor's report is filed with the Registrar.

The field trips are a part of the regular Summer School work, and count as residence courses. The field trips of two weeks or three weeks duration count for two and three weeks of residence, respectively. The Transcontinental Trip counts as six weeks of residence, the equivalent of the full period of the Summer Session.

#### CLASSROOM AIDS FOR TEACHERS OF GEOGRAPHY

Clark University, through its School of Geography, wishes to extend to teachers in service facilities for obtaining, at nominal cost, valuable aids for making geography real and concrete to pupils. This service is provided by the Home Study Department and places within reach of every teacher and school three kinds of classroom aids for the teaching of geography: (1) Illustrated pamphlets; (2) Museum exhibits; (3) Publications of special interest to geography teachers.

#### ILLUSTRATED PAMPHLETS FOR CLASSROOM USE

Through the generous co-operation of government bureaus of the United States and foreign countries, tourist bureaus, transportation companies, manufacturers, importers, and other business houses at home and abroad, Clark University has assembled illustrated pamphlets, booklets, maps, charts and posters of great variety, and of immediate value to the classroom teacher. A nominal charge is made to cover the cost of handling and shipping this material. A package of thirty or more selected pamphlets will be sent to any address, postpaid, for \$1.00. A larger assortment will be sent for \$2.00, \$3.00, \$4.00, or \$5.00. Each dollar after the first will

#### Please do not write above this line

#### To the Registrar of Clark University:

I wish to be enrolled as a student in the Summer School for 1930, and enclose with this the Registration fee of two dollars.

Name

Address

Date

Occupation during the past academic year

If teaching or studying, where?

secure a larger supply than the first dollar, because of decreased cost in packing and in parcel post charges. A \$5.00 package will probably contain more than 200 pieces of illustrated material. A \$10 package will contain over 400 pieces of literature, and will include many publications secured by extensive international correspondence.

Due consideration will be given to requests for material covering certain phases of geography, such as:

Home Geography Transportation Europe
Food Manufacture Asia
Clothing United States Africa
Shelter South America Australia

The Home Study Department of Clark University has become a center of exchange for more than a thousand different kinds of illustrated literature. Numerous publications have been obtained in generous quantities that could not be obtained by the individual teacher. This generous cooperation from all parts of the world is growing.

Address all communications to

Clark University, Home Study Department Worcester, Massachusetts

#### MUSEUM EXHIBITS FOR CLASSROOM USE

Exhibits of important products will be furnished at cost of preparation and transportation. Manufacturers, producers, and importers are generous in supplying materials in bulk. These are prepared in convenient form for examination and study. The specimens are placed in glass tubes, sealed, and labeled. Most of the exhibits are accompanied by appropriate literature.

The tubes may be exhibited on a desk or table in the schoolroom or they may be passed among the pupils for careful examination under the supervision of the teacher. The tubes containing the specimens may be mounted by the teacher and pupils on wood, composition board, beaver board, or other suitable material, with maps and pictures pertaining to the specimens, thus making an attractive exhibit easily and effectively displayed. Instructions for mounting will be sent with each order.

The nominal charge made for these exhibits is necessary to cover the cost of securing the materials, preparing the exhibits for classroom use, packing them for shipment, and for transportation charges. The order blank may be used in ordering these museum materials.

# Order Blank for Geographic Museum Exhibits

CLARK UNIVERSITY,

HOME STUDY DEPAREMENT,

Worcester, Mass.

NOTE. If the order is for \$5.00 or more, deduct 10 per cent; if \$20.00 or more, deduct 20 per cent. If the order is for the entire set of exhibits, deduct 25 per cent. The net discount price of the entire set of 34 exhibits, containing 284 individual speciments, is \$21.94. All shipments are sent postpaid.

Please mark the package as follows:

Name	 
City and State	 

Date

#### Museum Exhibits Now Available

Asbestos	1	sample with literature	\$ .20
Asphalt	2	samples with literature	.30
Bakelite	1	sample	.05
Borax	4	samples	.40
Botanical Drugs	12	samples	1.20
Carpets	3	samples with literature	.30
Celluloid	11	samples with literature	.55
Cereals	17	samples with literature	2.00
Cocoa	4	samples with literature	.50
Coffee	6	samples with literature	.70
Cotton	5	samples	.60
Dyewoods		samples	60
Fertilizers	12	samples with literature	1.30
Flour	9	samples	.90
Ford Products	8	samples	.80
Wood by-products			
Fuels		samples	.80
Glue	5	samples with literature	.50
Minerals		samples	1.50
Naval Stores	16	samples with literature	1.00
(pine tree products)			
Portland Cement		samples with literature	.80
Rattan		samples	.15
Rubber		samples	.35
Seeds		samples	1.20
Shellac		samples with literature	.50
Soap		samples with literature	1.80
Soils		samples with literature	.80
Spices		samples with literature	3.00
Starches		samples	1.20
Sulphur	3	samples with literature	.40,
Tapioca		samples	.40
Tea		samples with literature	1.00
Wire Netting	3	samples with literature	.15
Woods		samples with pictures of trees	1.80
Wool	15	samples	1.50

DISCOUNTS: If an order amounts to \$5.00 or more, deduct 10 per cent.; if \$20.00 or more, deduct 20 per cent. If the entire set of exhibits is ordered at one time, deduct 25 per cent. Orders from individuals should be accompanied by full payment in any convenient form. Orders from Boards of Education may be made according to their usual plans for purchasing school supplies.

Correspondence is invited. Address: Clark University, Home Study Department, Worcester, Massachusetts.

#### Please send the exhibits checked in the following list:

Asbestos	\$ .20	Minerals	\$1.50
Asphalt	.30	Naval Stores	1.00
Bakelite	.05	Portland Cement	.80
Borax	.40	Rattan	.15
Botanical Drugs	1.20	Rubber	.35
Carpets	.30	Seeds	1.20
Celluloid	.55	Shellac	.50
Cereals	2.00	Soap	1.80
Cocoa	.50	Soils	.80
Coffee	.70	Spices	3.00
Cotton	.60	Starches	1.20
Dyewoods	.60	Sulphur	.40
Fertilizers	1.30	Tapioca	.40
Flour	.90	Tea	1.00
Ford Products	.80	Wire Netting	.15
Fuels	.80	Woods	1.80
Glue	.50	Wool	1.50

#### PUBLICATIONS FOR GEOGRAPHY TEACHERS AND HISTORY TEACHERS

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- 2. Ella B. Knight: A Bibliography of Geographical Literature for Elementary Grades and Junior High School. Second Revised Edition, 1928. Price 25 cents. More than 500 choice books are listed with annotations. You can select supplementary reading in geography with assurance, if you have this bibliography.
- 3. Douglas C. Ridgley: A Study of Children's Learning about Places. Price 80 cents. A monograph of 142 pages with 30 graphs. A discussion of place geography with practical suggestions for the study of places in the regular geography work. A classified list of 1,200 important places enables teacher and pupils to center attention on the places worthy of special study.

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#### A MAGAZINE FOR GEOGRAPHY TEACHERS

Economic Geography is a quarterly journal published by Clark University. Its articles cover many phases of industry and commerce. It is a most valuable reference for classes in geography in any school, but it is especially adapted to the needs of high school, normal school, college, and university.

Subscription rates are \$5.00 per year. For further information, address:

\*\*Economic Geography\*\*, Clark University,

Worcester, Massachusetts

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Please send the explanatory statement and sample lessons of the Home Study Course entitled:

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You may also send the other items checked on this form:

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ř	1	Appual Catalogue of Clark University, No charge
F	4	Statement of the mark of the state of the st
L	٦	Statement of the requirements for the degree Bachelor of Education
		at Clark University. No charge,
L	J	Further information about the Quarterly journal, Economic Geogra-
		phy. No charge.
	]	Information about membership in the National Council of Geogra-
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Γ	7	Enclosed find \$1.00 for selected printed material for teaching
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L	4	Enclosed find 25c for Knight's Bibliography.
Ī	_	Enclosed find 80c for Ridgley's Monograph on Place Geography.
L	]	Enclosed find \$1.00 for the three foregoing publications.
	]	Enclosed find 25c for Bye's Bibliography.
Γ	1	Enclosed find 25c for Branom's Bibliography.  Enclosed find 25c for Knight's Bibliography.  Enclosed find 80c for Ridgley's Monograph on Place Geography.  Enclosed find \$1.00 for the three foregoing publications.  Enclosed find 25c for Bye's Bibliography.  Enclosed find \$1.20 for the four publications.

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# Clark University Bulletin

Catalogue Number

1929 - 1930

Worcester, Massachusetts February, 1930



# Clark University Bulletin

NUMBER 73

FEBRUARY, 1930

# Catalogue Number

The Catalogue is a record for the current academic year, 1929-'30. Such announcements for the year 1930-'31 as can be made at the time of publication are included.

The Bulletin is published in January, February, March, April, May, June, October, November, and December

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# HISTORICAL NOTE

The University owes its existence to the interest in higher education of Jonas Gilman Clark, who was born at Hubbardston, Worcester County, Massachusetts, February 1, 1815. Conscious of the meagreness of his own early educational opportunities, he devoted his later years to the establishment and nurture of the institution which bears his name. In this he was ably assisted by his wife, Susan W. Clark, and by prominent citizens of Worcester. Mr. Clark died at Worcester on May 23, 1900.

The charter of the University was granted by the General Court of Massachusetts in 1887. The Graduate Division, with Granville Stanley Hall as president, received its first students in 1889. Special provision was made in Mr. Clark's will for the establishment of a collegiate Undergraduate Division with its own president but under the same general control as the Graduate Division. Carroll Davidson Wright was chosen president of the Undergraduate Division and students were first received in October 1902. After the death of President Wright in 1909, Edmund Clark Sanford, then Professor of Psychology in the Graduate Division, was chosen as President of the college.

In June, 1920, Presidents Hall and Sanford resigned and Wallace Walter Atwood was elected to the presidency of both the Graduate and the Undergraduate Divisions of the University.

During the academic year 1920-21 the two faculties continued their separate organizations while plans for unification were being worked out. These plans, approved by the Board of Trustees, went into effect in 1921-22 and provided for the fusion of the two faculties into a single body.

With the election of President Atwood, provision was made for the establishment of a Graduate School of Geography, and work in that school was begun in the fall of 1921.

A Summer School with a six weeks' session has been conducted each year, beginning in 1921.

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# **CALENDAR**

The academic year begins on the fourth Thursday in September. Commencement Day is the thirty-eighth Monday following (the second or third Monday in June).

The first semester ends on the Saturday before the nineteenth Monday and the second semester begins on the nineteenth Monday of the academic year.

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192	9		
Sept.	26.	Thursday	Academic year began. Registration day.
Oct.	12.	Saturday	Columbus Day. A holiday.
Nov.	23.	Saturday	Mid-semester reports.
Nov.	27.	Wednesday	Thanksgiving recess began at 1 P. M.
Dec.	3.	Monday	Thanksgiving recess ended at 8 A. M.
Dec.	21.	Saturday	Christmas recess began at 1 P. M.
193	0		
Jan.	6.	Monday	Christmas recess ended at 8 A. M.
Jan.	23.	Thursday	Semester examinations began at 2 P. M. Registration day for second semester.
Feb.	1.	Saturday	Founder's Day. Not a holiday. End of first
		•	semester.
Feb.	3.	Monday	Second semester begins.
Feb.	22.	Saturday	Washington's Birthday. A holiday.
Mar.	1.	Saturday	Last day for receiving applications for graduate scholarships and fellowships for 1930-31.
Apr.	5.	Saturday	Mid-semester reports.
Apr.		Saturday	Spring recess begins at 1 P. M.
Apr.	21.	Monday	Spring recess ends at 8 A. M.
May	3.	Saturday	Sub-Freshman Day.
May	30.	Friday	Memorial Day. A holiday.
June	5.	Thursday	Semester examinations begin at 2 P. M.
June	12.	Thursday	Last day of semester examinations.
June	13.	Friday	Dissertations and theses for the Ph.D. and M.A.
			degrees are due at the office of the Secretary of
_			the Graduate Board.
June	16.	Monday	Commencement Day.
June		Monday	Summer School opens. Registration day.
July	5.	Saturday	Last day for payment of Summer School tui-
Aug.	7	Thursday	Final Assembly of the Summer School at 8 P. M.
riug.		Inuisuay	Conferring of degrees.
Aug.	8.	Friday	Summer School closes.

Sept.	25.	Thursday	Academic year begins. Registration day.
Oct.	4.	Saturday	Last day for payment of term bills. Last day
			for changes in undergraduate programs.
Oct.	12.	Sunday	Columbus Day Mon., Oct. 13, a holiday.
Oct.	25.	Saturday	Last day for receiving applications for admis-
			sion to candidacy for the degree of Doctor of
			Philosophy in June, 1931.
Nov.	22.	Saturday	Mid-semester reports.
Nov.	26.	Wednesday	Thanksgiving recess begins at 1 P. M.
Dec.	1.	Monday	Thanksgiving recess ends at 8 A. M.
Dec.	20.	Saturday	Christmas recess begins at 1 P. M.
193	1		
Jan.	5.	Monday	Christmas recess ends at 8 A. M.
Jan.	22.	Thursday	Semester examinations begin at 2 P. M. Regis-
Jan.	30		tration day for second semester. Last day for
Jan.	31.	Saturday	Founder's Day. Celebration. applications
			End of first semester.
			Last day for receiving applications for under-
			graduate scholarships for the second semester.
Feb.	2.	Monday	Second semester begins.
Feb.	7.	Saturday	Last day for changes in undergraduate pro-
			grams. Last day for receiving applications for
			admission to candidacy for the degree of Mas-
			ter of Arts in June, 1931.
		Wednesday	Last day for payment of term bills.
Feb.	22.	Sunday	Washington's Birthday. Mon., Feb. 23, a holi-
B00 at			day.
Feb.	28.	Saturday	Last day for receiving applications for graduate
	,	G . 1	scholarships and fellowships for 1931-32.
-		Saturday	Mid-semester reports.
Apr.			Spring recess begins at 1 P. M.
Apr.			Spring recess ends at 8 A. M. Sub-Freshman Day.
May			
May			Memorial Day. A holiday.
-		Thursday Thursday	Semester examinations begin at 2 P. M.  Last day of semester examinations.
June		-	Dissertations and theses for the Ph.D. and M.A.
June	12.	Tillay	degrees are due at the office of the Secretary
			of the Graduate Board.
Tune	15	Monday	Commencement Day.
June	10.	Monday	Commencement Day.

# BOARD OF TRUSTEES

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Final authority in all matters pertaining to the University is lodged in the Board of Trustees by charter granted by the General Court of the Commonwealth of Massachusetts.

# ADMINISTRATIVE OFFICERS

President of the University and	d Director of
•	
the Graduate School of Ge	eography W. W. Atwood
Librarian and Curator of the A	ert Collection L. N. Wilson
Dean of the College	H. P. LITTLE
Director of the Summer School	D. C. RIDGLEY
Director of the Home Study D	epartment D. C. RIDGLEY
Registrar	C. E. Melville
Bursar	FLORENCE CHANDLER

# UNIVERSITY STAFF

For Summer School Faculty see pages 84 and 85

WALLACE WALTER ATWOOD, Ph.D.

160 Woodland St.

President, 1920-. Professor of Physical and Regional Geography. Director of the Graduate School of Geography. Editor, *Economic Geography*.

B.S., University of Chicago, 1897; Fellow, Assistant, and Associate, 1899-1903; Ph.D., 1903; Instructor and Assistant Professor of Physiography and General Geology, 1903-10; Associate Professor, 1910-13. Instructor, Lewis Institute, Chicago, 1897-99. Instructor, Chicago Institute, 1900-01. Professor of Physiography, Harvard University, 1913-20. Geologist, U. S. Geological Survey. Fellow, American Academy of Arts and Sciences. Member, Geological Society of America, American Antiquarian Society, Chicago Academy of Sciences and the Association of American Geographers. President, National Council of Geography Teachers, 1920-21. Foreign member, Swedish Anthropological and Geographical Society, Honorary Senator, University of Breslau. Member, National Parks Advisory Board, President National Parks Association, 1929.

WILLIAM EDWARD STORY, PH.D.

17 Hammond St.

Professor of Mathematics, 1889-1921. Professor Emeritus.

Louis N. Wilson, Litt.D.

11 Shirley St.

Librarian 1889-1929. Librarian Emeritus

HENRY TABER, PH.D.

2 Pleasant Place

Professor of Mathematics, 1903-21. Professor Emeritus.

WILLIAM HENRY BURNHAM, PH.D.

20 John St.

Professor of Education and School Hygiene, 1906-26. Professor Emeritus,

Benjamin Shores Merigold, Ph.D. 166 Woodland St.

Professor of Chemistry, Director of the Chemical Laboratories.

Instructor in Chemistry, 1905-12, 1916-20; Professor, 1920.
Assistant Professor of Chemistry, Clark College, 1903-08; Professor, 1908-20.

A.B., Harvard University, 1896; Assistant in Chemistry, 1896-1900; A.M., 1897; Ph.D., 1901. Instructor in Chemistry, Worcester Polytechnic Institute, 1900-03.

## FRANK BLAIR WILLIAMS, PH.D.

24 Loudon St.

Professor of Mathematics.

Scholar in Mathematics, 1897-98; Fellow, 1898-1900; Ph.D., 1900; Instructor, 1910-20; Professor, 1920.

Assistant Professor of Mathematics, Clark College, 1907-08; Professor, 1908-20.

C.E., University of Missouri, 1890; M.S., 1893; Teaching Fellow, 1892-93. Engineering Work, United States Government Surveys, 1890-92 and 1894; U. S. Asst. Engineer, 1895-97. Assistant Professor of Engineering, Union College, 1900-04; Professor of Engineering Mathematics, 1904-07.

George Hubbard Blakeslee, Ph.D., L.H.D. 21 Downing St.

Professor of History and International Relations.

Instructor in History, 1905-11; Professor, 1911.

Instructor, Clark College, 1903-04; Assistant Professor, 1904-09; Professor, 1909-20.

A.B., Wesleyan University, 1893; L.H.D., 1923. Graduate student, Johns Hopkins University, 1893-94; Harvard University, 1898-1901; A.M., 1900; Parker Fellow, 1901-02; Ph.D., 1903. Universities of Berlin, Leipzig, and Oxford, 1901-03. Member of the Council of the American Antiquarian Society. Member of Technical Staff, American Delegation, Conference on Limitation of Armament, Washington, 1921-22. Visiting Carnegie Professor of International Relations to Universities in Japan, Australia and New Zealand, 1927-28.

CHARLES BREWSTER RANDOLPH, Ph.D.

10 Otsego Rd.

Professor of German.

Professor of German, 1920. Secretary of the Summer School, 1921. Director of the Summer School, 1921-24.

Instructor in Greek, Clark College, 1903-04; Instructor in Greek and Latin, 1904-05; Assistant Professor, 1905-10; Professor of Latin, 1910-18; Professor of Latin and German, 1918-20.

A.B., Wabash College, 1896. Graduate Student, Harvard University, 1901-03; A.M., 1902; Ph.D., 1905. Instructor in Greek and Latin, University of Illinois Preparatory School, 1897-1900. Student, University of Halle, 1900-01.

## PHILIP HUDSON CHURCHMAN, PH.D.

20 Institute Rd.

Professor of Romance Languages, 1920-.

Assistant Professor of Romance Languages, Clark College, 1908-11; Professor, 1911-20.

A.B., Princeton University, 1896; A.M., 1903; Instructor in French, 1900-04. Master, Chestnut Hill Academy, Philadelphia, 1897-99. Student, Universities of Paris and Grenoble, 1899-1900, 1903-04. Instructor in French and Spanish, United States Naval Academy, 1904-05. Graduate Student, Harvard University, 1905-08; Instructor in Romance Languages, 1906-08; Ph.D., 1908. Visiting Lecturer in the University of Chicago, Summer Quarter, 1912.

# HAVEN DARLING BRACKETT, PH.D.

114 Woodland St.

Professor of Greek and Latin, 1920-.

Instructor in Greek and Latin, Clark College, 1904-06; Assistant Professor, 1906-10; Assistant Professor of Greek, 1910-12; Professor of Greek, 1912-15; Professor of the Greek Language and Literature, 1915-20.

A.B., Amherst College, 1898. Master in Greek, Mercersburg Academy (Pennsylvania), 1898-99. Master in Greek, Lake Forest Academy (Illinois), 1899-1900. Sub-master, Boston Latin School, 1900-01. Graduate Student, Harvard University, 1901-04; Ph.D., 1904; Assistant in Ancient History, Harvard University, and Lecturer in Greek History, Radcliffe College, 1903-04.

# LEROY ALLSTON AMES, A.M.

166 Woodland St.

Professor of English Literature, 1920-.

Instructor in English Literature, Clark College, 1908-10; Assistant Professor, 1910-15; Professor, 1915-20.

A.B., Harvard University, 1896; Assistant in English, 1899-1900; Graduate Student, 1899-1901; A.M., 1901. Instructor in English, Browne and Nichols School, Cambridge, Mass., 1896-99; Worcester English High School, 1901-06; Noble and Greenough School, Boston, Mass., 1906-07.

LORING HOLMES DODD, PH.D.

88 Sagamore Rd.

Professor of Rhetoric, 1920-.

Instructor in English, Clark College, 1910-13; Assistant Professor, 1913-16; Associate Professor, 1916-20.

A.B., Dartmouth College, 1900. A.M., Columbia University, 1901. Ph.D., Yale University, 1907. Instructor, Choate School, Wallingford, Conn., 1901-02. Instructor in English, St. Paul's School, Garden City, N. Y., 1907-10.

ROBERT HUTCHINS GODDARD, PH.D.

17 Gates Lane

Professor of Physics. Director of the Physical Laboratories.

Student in Physics, 1908-09; Fellow, 1909-11; A.M., 1910; Ph.D., 1911; Honorary Fellow, 1911-12, 1914-15, 1919-20; Instructor in Physics, 1916-18; Professor, 1920-.

Instructor in Physics, Clark College, 1914-15; Assistant Professor, 1915-19; Associate Professor, 1919-20.

B.S., Worcester Polytechnic Institute, 1908; Instructor in Physics, 1908-09. Research Instructor in Physics, Princeton University, 1912-13. Director of Research under U. S. Signal Corps, Worcester Polytechnic Institute and Mt. Wilson Observatory, 1918.

# HOMER PAYSON LITTLE, PH.D.

156 Woodland St.

Professor of Geology and Dean of the College 1922-.

A.B., Williams College, 1906. Fellow, Johns Hopkins University, 1909-10; Ph.D., 1910. Instructor and later Professor of Geology, Colby College, 1910-20. Lecturer in Geology, Bangor Theological Seminary, 1913, 1916, 1919. U. S. Geological Survey, 1907. Maryland Geological Survey, 1908-10. Instructor, Johns Hopkins Summer School, 1921. Executive Secretary, Division of Geology and Geography of the National Research Council, 1920-22.

SAMUEL J. BRANDENBURG, PH.D.

173 Woodland St.

Professor of Economics and Sociology, 1923-.

A.B., Miami University, 1904. Graduate Student, University of Illinois, 1908-09, and University of Chicago, 1905-09; Ph.M., University of Chicago, 1909. Professor of Economics and Librarian, Miami University, 1909-20. Graduate Student and Assistant, University of Wisconsin, 1920-22; Ph.D., 1922. Professor of Economics and Sociology, University of Arkansas, 1922-23. Visiting Lecturer in Economics, University of Texas, Summer, 1923.

\*Alfred Lewis Pinneo Dennis, Ph.D.

769 Main St.

Professor of Modern History.

Acting Professor of International Relations, 1922-23 Feb.-June; Professor of Modern History, 1923.

A.B., Princeton, 1896. Student, Columbia, Heidelberg, and Harvard Universities, 1896-1901. Ph.D., Columbia University, 1901. Instructor and Professor of History and Political Science, Bowdoin College, 1901-04. Associate Professor of History, University of Chicago, 1904-05. Lecturer in History, Harvard University, 1905-06. Professor of History, University of Wisconsin, 1906-20.

Captain, Military Intelligence Division, General Staff, 1918-19. Assistant Military Attaché, American Embassy, London, reporting to Peace Conference, Paris, 1919. Awarded British Military Cross.

#### CARL MURCHISON, PH.D.

11 Downing St.

Professor of Psychology, 1923-. Director of the Psychological Laboratories. Editor, The Pedagogical Seminary and Journal of Genetic Psychology; Genetic Psychology Monographs; Journal of General Psychology; Co-Editor, Journal of Social Psychology. Director of the Clark University Press.

A.B., Wake Forest College, 1909. Rumrill Fellow, Harvard University, 1909-10. Student, Rochester Theological Seminary, 1910-13; Student, Yale University, 1914-(Jan.) 16. Assistant Professor of Psychology, Miami University, 1916-19; on leave 1917-19; 1922-23; Associate Professor, 1919-23. Instructor, Army School for Military Psychology, Camp Greenleaf, Georgia, 1918. Psychological Examiner and Camp Morale Officer, Camp Sherman, Ohio; Assistant, 1918-19; Chief, 1919. Johnstone Scholar, Johns Hopkins University, 1922-23; Ph.D., 1923.

\*\*ELLEN CHURCHILL SEMPLE, A.M., LL.D. 941 Main St. Professor of Anthropogeography.

Lecturer in Anthropogeography, 1921-22; Acting Professor, 1922-23; Professor, 1923-.

A.B., Vassar College, 1882; A.M., 1891. LL.D., University of Kentucky, 1923. Student Leipzig University, 1891-92, 1895. Lecturer, University of Chicago between 1906-1923. Lecturer at School of Geography, Oxford University, England, summer terms 1912, and 1922. Ex-President, Association of American Geographers. Gold Medalist of American Geographical Society.

<sup>\*</sup>To be absent on leave February, 1930, to September, 1931.

<sup>\*\*</sup>In residence for first semester only.

WILLIAM HOMER WARREN, PH.D.

166 Woodland St.

Professor of Organic Chemistry, 1925 (Feb.)-.

Assistant Professor of Chemistry, Clark College, 1911-12.

A.B., Harvard University, 1889; A.M., 1891; Ph.D., 1892. Instructor in Chemistry, Medical Department, Washington University, 1898-99; Assistant Professor, 1899-1900; Professor, 1900-11; Dean, 1908-11. Professor of Chemistry, Wheaton College, 1912-17. Captain, Q.M.C. and C.W.S., 1917-19. Research Chemist, 1919-25.

## Walter Samuel Hunter, Ph.D.

171 Woodland St.

G. Stanley Hall Professor of Genetic Psychology, 1925-. Editor, Psychological Abstracts, Psychological Index.

A.B., University of Texas, 1910; Instructor in Philosophy, 1912-14; Adjunct Professor of Psychology, 1914-16. Ph.D., University of Chicago, 1912. Professor of Psychology, University of Kansas, 1916-25. Visiting Professor, Summer Session, Tulane University, 1915; State University of Iowa, 1920; University of Chicago, 1923; University of California, Southern Branch, 1926; Northwestern University, 1927; First Lieutenant and Captain, Sanitary Corps, Psychology Division, U. S. A., September, 1917, to December, 1918; Visiting Professor, Harvard University, 1927-28 (first semester), 1928-29.

# CHARLES FRANKLIN BROOKS, PH.D.

209 Lovell St.

Professor of Meteorology and Climatology.

Associate Professor, 1921-26; Professor, 1926-.

A.B., Harvard University, 1911 (as of 1912); A.M., 1912; Research Assistant, Blue Hill Observatory, 1912-13; Assistant in Meterology and Physical Geography, 1913-14; Ph.D., 1914. Assistant in Physical Geography, Radcliffe, 1914. Assistant in Farm Management, United States Department of Agriculture, 1914-15, 1917-18; Collaborator, 1915-16. Instructor in Geography, Yale University, 1915-18. Instructor in Meteorology, United States Signal Service, 1918. Meteorologist, United States Weather Bureau, 1918-21. Secretary (1919-), and Editor American Meteorological Society. Member, American Geophysical Union, International Climatological Commission.

Douglas Clay Ridgley, Ph.D.

166 Woodland St.

Professor of Geography in Education. Director of the Summer School. Director of the Home Study Department.

Lecturer and Honorary Fellow in Geography, 1922-23; Special Lecturer and Fellow, 1923-24; Ph.D., 1925. Associate Professor, 1924-27; Professor, 1927.

A.B., Indiana University, 1893. High School Instructor and Principal, Chicago Schools, 1895-1903. Professor of Geography and Head of Department of Geography, Illinois State Normal University, 1903-1922; on leave, 1921-22. Graduate Student, University of Chicago, 1921-22; M.S., 1922. Professor of Geography, First College Cruise around the World, 1926-27.

Walter Elmer Ekblaw, Ph.D. Box 431, No. Grafton, Mass. Professor of Geography. Assistant Editor, *Economic Geography*.

Honorary Fellow in Geography, 1924-26; Ph.D., 1926; Associate Professor, 1926-28; Professor, 1928-.

A.B., University of Illinois, 1910; Research Fellow, 1910-13; A.M., 1912. Botanist and Geologist, Crockerland Arctic Expedition, 1913-17. Research Associate, American Museum of Natural History, New York, and Research Scholar, University of Illinois, 1917-20. Field Geologist, 1920-1924.

\*James Blaine Hedges, Ph.D.

25 Delawanda Dr.

Professor of American History.

Assistant Professor, 1924-26; Associate Professor, 1926-28; Professor, 1928-.

A.B., University of Missouri, 1915; A.M., 1916. Fellow in History, Harvard University, 1916-17; Austin Teaching Fellow, 1919-20, 1922-23; Ph.D., 1924. Instructor in History, University of Oklahoma, 1920-21. Assistant Professor of History, Mills College, 1921-22. Secretary and Archivist, Harvard University Commission on Western History, 1923-24, Lecturer in History, Harvard University, 1929-30.

<sup>\*</sup>Absent on leave, 1929-30.

CLARENCE FIELDEN JONES, PH.D.

193 Lovell St.

Professor of Economic Geography. Associate Editor, Economic Geography.

Assistant Professor, 1923-26; Associate Professor, 1926-28; Professor, 1928-.

B.S., University of Chicago, 1917; Assistant and Graduate Student, Department of Geography, 1919-23; Ph.D., 1923. Head of Department of Geography, State Normal School, St. Cloud, Minn., 1917-18. Instructor in Geography, Illinois State Normal University, Summer Session, 1920. Visiting Professor in Geography, Iowa State University, Summer Sessions, 1924 and 1925. Lecturer in Geography, Western Illinois State Teachers College, Summer Session, 1924. Member, Association of American Geographers.

# \*\*John Paul Nafe, Ph.D.

1 Freeland St.

Professor of Psychology.

Assistant Professor of Psychology, 1924-25; Associate Professor, 1925-28; Professor, 1928-.

A.B., University of Colorado, 1911. Assistant in Psychology, Cornell University, 1921-22; Instructor, 1922-24; Ph.D., 1924.

#### CAREY EYSTER MELVILLE, A.B.

16 Isabella St.

Associate Professor of Mathematics. Registrar.

Honorary Fellow in Mathematics, 1906-15; Associate Professor, 1920-; University Registrar, 1922-.

Assistant in Mathematics, Clark College, 1906-09; Instructor, 1909-10; Instructor in Mathematics and Physics, 1910-11; Assistant Professor, 1911-14; Assistant Professor of Mathematics, 1914-18; Associate Professor, 1918-20; Registrar, 1914-22.

A.B., Northwestern University, 1901; Teaching Fellow in Mathematics, 1901-02. Graduate Student, Johns Hopkins University, 1902-03. Instructor in Mathematics, Case School of Applied Science, 1903-06.

# VERNON JONES, PH.D.

6 Ripley St.

Associate Professor of Educational Psychology, 1926. Principal of High School, 1919. A.B., and A.M., University of Virginia, 1920; Teacher of Educational Psychology, Summer term, 1924; Principal of Schools, 1920-23; A.M., Columbia University, 1924; Associate in Education, 1925-26; Ph.D., 1926. Director of Research, Public Schools, Richmond, Virginia, 1924-25; Special Part-Time Lecturer, Teachers College, Columbia University, 1927-29.

<sup>\*\*</sup>Absent on leave, second semester, 1929-30.

\*James Ackley Maxwell, Ph.D.

2 Stoneland Rd.

Associate Professor of Economics.

Instructor in Economics, 1924-26; Assistant Professor, 1926-28; Associate Professor, 1928-.

A.B., Dalhousie University, 1921; A.M., Harvard University, 1923; Ph.D., 1927 (Feb.).

LELAND LEAVITT ATWOOD, PH.D.

68 Mann St.

Assistant Professor of Romance Languages, 1926-.

A.B., Clark College, 1916; Instructor, Summer Session, 1924. Instructor in Romance Languages, Cornell University, 1917-24; (1917-November-1919 in military service) A.M., 1922; Ph.D., 1927. Student, University of Paris, March-July, 1919. Instructor in Romance Languages, North Carolina College for Women, 1924-25; Assistant Professor, 1925-26.

JESSE LUNT BULLOCK, A.M.

35 Downing St.

Assistant Professor of Chemistry, 1926-.

A.B., Harvard, 1914; Graduate Student and Assistant in Chemistry, 1914-15; A.M., 1928. Industrial Research, The Calco Chemical Company and the Diamond Match Company, 1915-22. Chief Chemist, The Granton Chemical Company, 1922-24. Consulting Chemist, 1924-26.

ARTHUR FLETCHER LUCAS, Ph.D.

18 Ferdinand St.

Associate Professor of Economics and Sociology. Assistant Professor, 1926-29. Associate Professor, 1929-.

A.B., Bates College, 1920. Instructor in Economics, Princeton University, 1920-22, 1924-26; Fellow in Economics, 1922-24; A.M., 1923; Ph.D., 1925; Professor of Economics, University of the South, Summer Quarter, 1928.

GEORGE ELISHA BAKER, A.M.

Estabrook Hall

Assistant Professor of English. Proctor, Estabrook Hall.

A.B., 1922; Assistant in English, 1924 (Feb.-June); Instructor 1925-27; Assistant Professor, 1927-.

Instructor in English, Dartmouth College, 1922-23. Instructor, Amherst, Mass., High School, 1923 (half year). Graduate Student, Harvard University, 1924-25; A.M., 1925. Student, Emerson College of Oratory, summer session, 1926.

<sup>\*</sup>To be absent on leave, 1930-31.

Heinrich Morant Bosshard, Ph.D.

12 Shirley St.

Assistant Professor of German, 1927-.

Ph.D., University of Zürich, Switzerland, 1919. Student, University of Grenoble, France, Summer Sessions, 1914 and 1916. M. Ed., Harvard University, 1921; Instructor in German, 1921-22, 1926-27. Assistant Professor of German, University of North Carolina, 1922-23. Study and Travel, 1923-24. Instructor, Odenwald schule, Oberhambach, Germany, 1924-26. Instructor, Harvard University, 1926-27.

# DWIGHT ERWIN LEE, PH.D.

3 Wyman St.

Assistant Professor of Modern European History, 1927-.

A.B., University of Rochester, 1921; A.M., 1922; Assistant in History, 1921-22; Instructor, 1922-24. Graduate Student, University of Michigan Summer School, 1922. Graduate Student, Harvard University, 1924-27; Francis Parkman Fellow, 1925-26; Bayard Cutting Travelling Fellow, 1926-27; Ph.D., 1928 (Feb.). Research in Paris, London, and Vienna, 1924, 1925, and 1926-27.

## \*David Potter, M.Sc.

15 Shirley St.

Assistant Professor of Biology.

Instructor in Biology, 1924-27; Assistant Professor, 1927-.

B.Sc., Massachusetts Agricultural College, 1916; Graduate Student and Assistant in Botany, 1921-23; M.Sc., 1923. Instructor in Biology, Albion College, 1923-24.

# Percy Martin Roope, Ph.D.

36 Richards St.

Assistant Professor of Physics.

A.B., Clark College, 1920; Instructor in Physics, 1921-27; A.M., 1924; Honorary Fellow, 1924-25; Fellow, 1925-26; on leave, 1926-27; Ph.D., 1927; Assistant Professor, 1927-.

Instructor in Physics, Kalamazoo College, 1920-21. Graduate Student, Massachusetts Institute of Technology, 1926-27.

# OSCAR WHITE RICHARDS, A.M.

12 May St.

Assistant Professor of Biology 1928 (Feb.)-.

A.B., University of Oregon, 1923; Teaching Fellow, 1923-25; A.M., 1925; Instructor, 1925-26; Assistant, Hopkins Marine Station of Stanford University, summer, 1926. Fellow, Graduate School, Harvard University, 1926-28; Ralph Sanger Scholar, 1926-27.

<sup>\*</sup>Absent on leave, 1929-30.

WILLIAM CLEMENT EATON

2 Woodbine St.

Assistant Professor of History, 1929-30.

A.B., A.M., University of North Carolina, 1920. Assistant Professor of History, Whitman College, 1924-25. Tutor, Harvard University, 1927-28; Sheldon Travelling Fellow in Europe, 1928-29; Ph.D., 1929.

Paul Walbert Shankweiler, A.M.

35 Freeland St.

Assistant Professor of Sociology, 1929-.

Ph.B., Muhlenberg College, 1919. A.M., Columbia University, 1921. Graduate, Union Theological Seminary, 1922. Instructor in New Trier High School, Winnetka, Illinois, 1923-25. Graduate student, Northwestern University, Summer Session, 1927. Assistant Professor of Sociology, Birmingham-Southern College, 1927-28. Teaching Fellow in Sociology, University of North Carolina, 1928-29.

Curtis F. Marbut, LL.D.

Special Lecturer in Geography.

ERWIN C. MILLER, M.D.

Special Lecturer in Biology.

GUY H. BURNHAM, A.M.

19 Bowdoin St.

Cartographer, Graduate School of Geography.

ERNEST RAYMOND WHITMAN

48 Downing St.

Director of Physical Education.

RALPH WARNER ELLIS, M.D.

574 Main St.

Medical Director.

FLORENCE CHANDLER 18 Downing St.

Bursar.

DEAN WINSLOW HANSCOM, A.B.

Waban, Mass.

Director of the Musical Clubs.

EUGENE C. BELKNAP

9½ Hancock St.

Curator, Department of Chemistry.

John W. Boardman

15 Shirley St.

Superintendent of Buildings and Grounds.

#### STUDENT ASSISTANTS

# Biology

CHARLES M. POMERAT

## Chemistry

REGINALD A. BRIGGS, A.B. BERNARD F. DUESEL, A.B. FRED P. LUVISI, A.B. WALTER G. STEWART, A.B.

## Economics and Sociology

GEORGE H. HAINES, A.B. RAYMOND C. THOMAS, A.B. HARRY E. TURBEVILLE, A.B.

## Geography

George B. Cressey

# History and International Relations GEORGE L. BLACKWELL, A.B. VICTOR R. EDMAN, A.B. GERALD M. KENDALL, A.B. GUY H. WINSLOW, A.M.

# Physics

THOMAS E. BOYLE, A.B. LAWRENCE C. MANSUR, A.B.

# Psychology

MASON N. CROOK, A.B., A.M. LOUIS W. GELLERMAN, A.M. CLARENCE H. GRAHAM, A.M. ROBERT W. LEEPER, A.M.

# GOVERNING BOARDS AND COMMITTEES

#### THE UNIVERSITY FACULTY

The Faculty consists of the President, the Librarian, and all members of the staff giving regular courses of instruction. It has immediate supervision over the general educational work of the University and is responsible for the nomination to the Board of Trustees of candidates for baccalaureate degrees and for honorary degrees.

Secretary of the Faculty, Charles B. Randolph.

#### THE UNIVERSITY SENATE

An advisory board appointed by the President President Wallace W. Atwood, ex officio

George H. Blakeslee W. Elmer Ekblaw
Samuel J. Brandenburg Robert H. Goddard
Philip H. Churchman Walter S. Hunter
Loring H. Dodd Homer P. Little

Carl Murchison

#### THE GRADUATE BOARD

The Graduate Board consists of the President and representatives of the departments offering advanced graduate instruction. It has general control of the work of the Graduate Division of the University and is responsible for the nomination to the Board of Trustees of candidates for the degrees of Master of Arts and of Doctor of Philosophy.

President Wallace W. Atwood, ex officio George H. Blakeslee James B. Hedges

Samuel J. Brandenburg Walter S. Hunter
Charles F. Brooks Clarence F. Jones
Alfred L. P. Dennis James A. Maxwell
W. Elmer Ekblaw Benjamin S. Merigold

Robert H. Goddard Carl Murchison John P. Nafe Wm. H. Warren

Carey E. Melville, Secretary

#### THE COLLEGIATE BOARD

The Collegiate Board consists of the President, the Dean of the College, the Registrar of the College and six members of the Faculty, appointed by the President. It has immediate supervision over the work of the Undergraduate Division subject to the direction of the Faculty and recommends to the Faculty candidates for the degree of Bachelor of Arts.

President Wallace W. Atwood
Collegiate Dean Homer P. Little
Registrar Carey E. Melville

Leland L. Atwood Dwight E. Lee
Jesse L. Bullock James E. Maxwell
Vernon Jones Douglas C. Ridgley

Percy M. Roope

#### THE COMMITTEE ON SPECIAL STUDENTS

The Committee exercises general supervision over special students including candidates for the degree of Bachelor of Education, and recommends to the Faculty candidates for this degree.

President Wallace W. Atwood, ex officio Registrar Carey E. Melville, Chairman Collegiate Dean Homer P. Little Director of the Summer School and of the Home Study Department Douglas C. Rigdley.

THE COMMITTEE ON THE SUMMER SCHOOL

President Wallace W. Atwood, ex officio
Director of the Summer School, Douglas C. Ridgley
George H. Blakeslee
Carey E. Melville

Carl Murchison

#### THE COMMITTEE ON PERSONNEL AND ORGANIZATION

Elected annually to advise the President regarding the personnel and the organization of departments.

George H. Blakeslee Homer P. Little
Walter S. Hunter Carey E. Melville

Benjamin S. Merigold

#### COMMITTEE ON EXTENSION COURSES

Philip H. Churchman, Chairman

Samuel J. Brandenburg

Vernon A. Jones

Homer P. Little Douglas C. Ridgley

# STANDING COMMITTEES OF THE GRADUATE BOARD

#### THE COMMITTEE ON CREDENTIALS

The Committee passes upon applications for admission to the graduate division and makes recommendations to the Graduate Board in respect to Fellowships and Scholarships and candidacy for graduate degrees.

President Wallace W. Atwood, ex officio Charles F. Brooks, Chairman

George H. Blakeslee

Samuel J. Brandenburg

Carl Murchison

#### THE COMMITTEE ON PROFICIENCY IN FOREIGN LANGUAGES

The Committee examines candidates for the degree of Doctor of Philosophy for proficiency in foreign languages.

President Wallace W. Atwood, ex officio

Philip H. Churchman, Professor of Romance Languages Charles B. Randolph, Professor of German

A representative of the students' major department.

# STANDING COMMITTEES OF THE COLLEGIATE BOARD

THE COMMITTEE ON ADMISSIONS

President Wallace W. Atwood
Dean Homer P. Little, Chairman
Registrar Carey E. Melville

ex officio

Haven D. Brackett

Robert H. Goddard

THE COMMITTEE ON CURRICULUM

President Wallace W. Atwood Dean Homer P. Little

Registrar Carey E. Melville, Chairman

Leroy A. Ames

Dwight E. Lee

Philip H. Churchman

#### THE COMMITTEE ON ATHLETICS

President Wallace W. Atwood
Dean Homer P. Little

James A. Maxwell David Potter Ernest R. Whitman Frank B. Williams

THE COMMITTEE ON AUTHORIZED EXCURSIONS

President Wallace W. Atwood Dean Homer P. Little

Charles F. Brooks

Carey E. Melville

COMMITTEE ON STUDENT FINANCE

Dean Homer P. Little
President Wallace W. Atwood
Charles B. Randolph, Chairman

James A. Maxwell

Ernest R. Whitman

Frank B. Williams

COMMITTEE ON THE STUDENT ACTIVITIES FUND

Dwight E. Lee, Chairman

Arthur F. Lucas

Ernest R. Whitman

COMMITTEE ON SOCIAL AFFAIRS

President Wallace W. Atwood
Dean Homer P. Little

ex officio

Leroy A. Ames, Chairman

Charles B. Randolph

William H. Warren

COMMITTEE ON FRATERNITIES

President Wallace W. Atwood
Dean Homer P. Little
Frank B. Williams, Chairman

Dwight E. Lee

Arthur F. Lucas

COMMITTEE ON PUBLICATIONS

President Wallace W. Atwood
Dean Homer P. Little

ex officio

Haven D. Brackett, Chairman

Heinrich Bosshard Percy M. Roope

# THE UNIVERSITY

#### THE LOCATION

Clark University is located in Worcester, Massachusetts, an industrial and educational center with a population of nearly two hundred thousand. It is distant about forty miles from Boston and from Providence, and about two hundred miles from New York City.

Situated at the eastern border of the Central Massachusetts upland at an altitude of nearly six hundred feet above sea level, excessive humidity is seldom experienced and the climate is bracing.

#### GROUNDS AND BUILDINGS

The University Campus is a tract of about eight acres bounded by Main, Woodland, Maywood, and Downing Streets, about a mile and a quarter from the City Hall. Here the principal buildings are located. Besides this tract, the institution owns the athletic grounds between Maywood and Beaver Streets, where the tennis courts are located, the athletic field of about six acres at the corner of Park Avenue and Beaver Street, about five minutes' walk from the University, the land on the corner of Woodland and Charlotte Streets, where Estabrook Hall is located, the adjacent Fanning estate and other property opposite the campus on Woodland Street, the Hadwen Arboretum on Lovell Street, and several other dwellings occupied by members of the staff. The residences of the President and of the Dean of the College are on Woodland Street, opposite the Campus.

Jonas G. Clark Hall, completed in 1889, is a four-story granite and brick building, 204 feet by 114 feet, of fire-resisting construction containing about ninety rooms.

Science Hall, completed in 1889, is constructed of brick with brick partitions throughout. It has the form of a letter L with each wing about 135 feet in length. The wing adjacent to Woodland Street, containing about twenty-eight rooms on three floors, is occupied by the Department of Chemistry. The other wing,

containing about twenty-two rooms on four floors, is occupied by the Department of Physics.

The Library Building, completed in 1903, is architecturally the most noteworthy of the University buildings. The design is a modern adaptation of the Gothic style. The exterior is of brick on a granite foundation. The interior is finished throughout in oak. The building, facing Main Street and extending back along Downing Street, is 78 feet by 168 feet and three stories in height.

The Geography Building, completed in 1910, is 56 feet wide and extends along Main Street for 111 feet. It is connected by corridors to the Library Building, which it matches in design.

Estabrook Hall, a dormitory for about fifty students, is the newest addition to the University buildings. This is an attractive brick building, 43 feet by 125 feet, and three stories in height, including the Dining Hall, built in 1908, on the ground floor. The dormitory and dining hall are both supplied with the most modern equipment throughout. The dining hall has accommodations for about two hundred.

#### ORGANIZATION

The University includes:

THE UNDERGRADUATE DIVISION offering a general collegiate course leading to the degree of Bachelor of Arts.

The Graduate Division offering advanced instruction leading to the degrees of Master of Arts and Doctor of Philosophy.

THE GRADUATE SCHOOL OF GEOGRAPHY offering special training leading to higher degrees in Geography and related subjects.

The Summer School offering both undergraduate and graduate instruction with special reference to candidates for the degree of Bachelor of Education.

THE LIBRARY with its separate endowment, offering unusual opportunities for study and research.

Courses of Study are offered by thirteen departments:

- 1. Ancient Languages and Literatures
- 2. Biology
- 3. Chemistry

- 4. Economics and Sociology
- 5. English Language and Literature
- 6. Geography
- 7. Geology
- 8. German Language and Literature
- 9. History and International Relations
- 10. Mathematics
- 11. Physics
- 12. Psychology and Education
- 13. Romance Languages and Literatures

# THE ACADEMIC YEAR \*

The academic year begins on the fourth Thursday in September, and Commencement Day is the thirty-eighth Monday following (the second or third Monday in June). The first semester ends on the Saturday before the nineteenth Monday, and the second semester begins on the nineteenth Monday of the academic year. There are three recesses during the college year: Thanksgiving Day and the two days following: two weeks including Christmas and New Year's Day; and the week including the nineteeth of April. University exercises are suspended also on Columbus Day, Washington's Birthday, and Memorial Day, and during some of the morning hours on Founder's Day, in order to permit students to attend the commemoration exercises.

The Summer School begins on a Monday early in July and continues in session for six weeks.

Students are expected to be present on the first day of each term and to continue in attendance from day to day to the end of the term.

#### ADMISSION

Three classes of students are admitted:

- 1. Undergraduates. For requirements see page 40.
- 2. Graduate students. For requirements see page 54.
- 3. Special students. (a) Mature persons, not candidates for a degree, who wish to take advantage of the opportunities for study afforded by the University, and who give satisfactory evidence of adequate preparation for the work which they wish to under-

Camp to Hth Sat. - 32 who. Oct. 18

Worlf on Camp data 1 " 25

Lectures to Jan. 15: 10"

Treading Period + examo. to end of sem.

\*\*Less tawk. Thanksgiving vac. 16 to the sem.

take. (b) Students who are candidates for the degree of Bachelor of Education. For requirements see page 87.

Requests for information and for application forms should be addressed to the Registrar.

#### REGISTRATION

The first day of the academic year and of the summer session are devoted to the registration of programs of study. Registration for the second semester is required not later than the tenth day (Thursday) before the beginning of the semester.

Failure to register at the time designated is penalized, in the case of undergraduates, by a fine of one dollar for each day's delay up to maximum of five dollars.

#### TUITION AND FEES

The tuition in the Undergraduate and Graduate Divisions is \$200 per year. In addition to the tuition the University collects from each undergraduate five dollars each semester for the support of "student activities." Special Students and others carrying small programs are charged at the rate of \$40 for a course meeting one hour weekly through the year, and \$20 for each additional hour per week through the year. Tuition is payable in two equal installments. These installments are due at the beginning of each semester. If the tuition is not paid within ten days after it is due the enrollment of the student lapses. A student whose enrollment has lapsed for non-payment of tuition may be re-enrolled, with permission of the proper administrative officer, on payment of the overdue tuition with an additional fee of \$2.

Tuition in the Summer School is \$20 for a single course and \$35 for two or more courses. Tuition may be paid at any time before the opening of the Summer School, and must be paid by noon of the first Saturday of the term.

Tuition in special courses for teachers is \$8.00 for a course meeting one hour per week for one semester and \$15 for a course meeting two hours a week for one semester.

A matriculation fee of \$5 is required of all students formally enrolled in Clark University. This is paid but once, and permits a student to return successive years, or after a period of absence,

without any further charge for matriculation. This fee is paid also by students who register for the Summer School.

Students admitted to special courses for teachers (extension courses), to field trips conducted by the Summer School and to Home Study courses are not required to matriculate. Official statements of record are issued by the Registrar of the University to matriculated students only.

Laboratory fees are charged at the rate of \$5.00 each semester for undergraduate laboratory courses.

A deposit of \$10 for each course, to cover breakage, is required of students taking undergraduate laboratory work in Chemistry. Any balance remaining at the end of the year is returned on application, and if the deposit is not sufficient to cover breakage, any excess is collected by the Bursar.

A deposit of \$25 is required of each graduate student in the Department of Chemistry, at the beginning of the year. Ordinary supplies and materials are charged to the student's account at cost. Any balance remaining is refunded at the end of the year.

Graduate students taking undergraduate courses pay the same fees and deposits as undergraduates.

Laboratory fees and deposits for breakage are due at the time of registration for the courses.

Publication fees, \$10.00 for the Master of Arts thesis and \$15 for the Doctor of Philosophy dissertation are due when applications for admission to candidacy are filed.

Diploma fees are charged according to the following schedule: \$5 for the Bachelor of Arts or the Bachelor of Education diploma. These fees are due before the delivery of the diploma.

\$10 for the Master of Arts diploma, due when applications for admission to candidacy are filed.

\$25 for the Doctor of Philosophy diploma, due when applications for admission to candidacy are filed.

### DINING HALL AND DORMITORY

Board at the Dining Hall is furnished at a reasonable rate which has varied from year to year. During the current year the charge is \$7.50 per week, with no refunds for absences except in cases of protracted illness.

Undergraduates who do not live in their own homes are required to board at the Dining Hall.

Estabrook Hall, (See cut and floor plan, pages 32 and 33) the undergraduate dormitory completed in 1924, provides accommodations for about fifty students at a cost of \$150 a year each for two students in a suite of two rooms, or \$115 each for two in one room. Dormitory room rent is payable either in advance or one-fifth at the beginning of each semester and one-tenth on the first day of November, December, January, March, April and May. Each student is required to deposit \$25 before occupying a room. This deposit is returned, less a charge for lights and any charges for damages to the room or its furnishings, when the key to the room is surrendered to the Bursar. A deposit of fifty cents is required from each student for a key to his room.

Freshmen not living in their own homes are required to room in Estabrook Hall. Rooms not required for Freshmen may be rented by upper classmen or by graduate students. Rooms are assigned to Freshmen in order of application, when the application is accompanied by the deposit of \$25. Students who indicate a desire to room together will be accommodated whenever possible.

The University also has dormitory accommodations for a small number of graduate students. Lodgings can be secured in private houses within convenient distance at a reasonable cost.

### OTHER EXPENSES

In addition to the fees and other charges enumerated above, students will find that the necessary expenses of living in Worcester are comparable with similar costs in any large city and that the total is largely dependent upon the individual's habits and tastes.

The cost of books varies with the programs of study. The University maintains a bookstore which is operated without profit in order to reduce the cost of text-books and supplies.

### FELLOWSHIPS, SCHOLARSHIPS AND LOANS

Fellowships and scholarships for graduate students are available as announced on page 52.

Undergraduate scholarships are available as announced on page 38.

Loans and other grants are also available from various special funds specifically designated for either graduate or undergraduate students and from the Sarah M. Thurber Loan Fund to both graduates and undergraduates.

### HEALTH AND PHYSICAL TRAINING

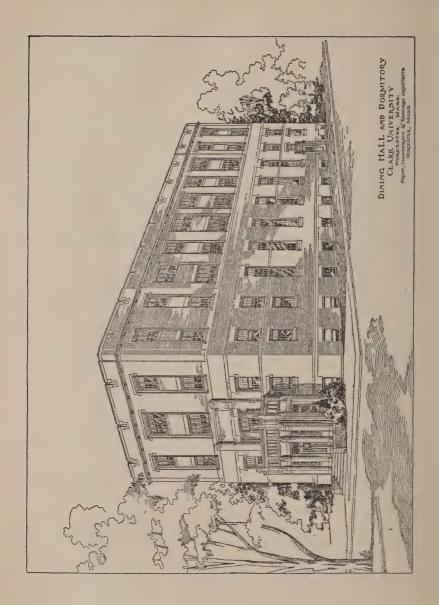
The Medical Director, Doctor Ralph W. Ellis, exercises general supervision over matters of health and hygiene in the University. For undergraduates a thorough medical examination is required at the beginning and end of each year. Three hours per week of physical training are required of all who are not excused for adequate reasons. Medical examinations and physical training are optional with graduate students.

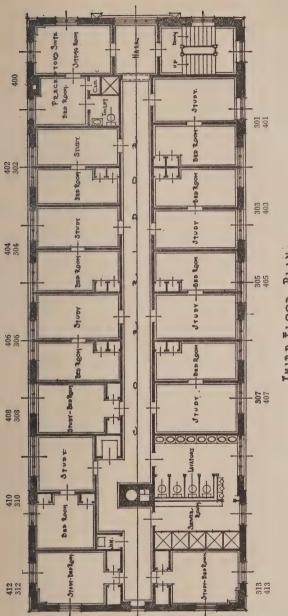
The Medical Director is available during the academic year for conferences and medical advice. It is intended that his services shall be primarily of a preventive nature. The University does not conduct an infirmary and does not undertake to care for cases of illness requiring medical attention or hospital accommodations, although it will co-operate in every possible way in meeting such emergencies.

The Director of Physical Education has supervision over all required physical training and other athletic activities. In the matter of intercollegiate contests he is assisted by the Committee on Athletics of the Faculty.

The University has two athletic grounds. The smaller one lies across Maywood Street from the campus and includes tennis courts and a cinder running track about an eighth of a mile in length. The larger athletic field, secured in 1924, is located at the corner of Beaver Street and Park Avenue, about five minutes' walk from the University.

The gymnasium is located on the ground floor of Jonas G. Clark Hall. Individual steel lockers and an ample number of shower baths are provided.





# THIRD TLOOR PLAN

# DINING HALL AND DORMITORY, CLARK UNIVERSITY

This dormitory is primarily for Freshmen students. All Freshmen who are living away from home while attending the College and who are not excused by special action of the Collegiate Board are required to live here during their first year. The rent for the rooms

has been placed at a very modest figure, much less than rooms of similar equipment and attractiveness can be secured for in the neighborhood of the College. A proctor lives in the building and has general supervision over the life in the dormitory.

### THE LIBRARY

Edith M. Baker, Acting Librarian Helen J. Elliot, Cataloguer

### Assistants

MARION HENDERSON EMILY C. KELLEY EDITH L. SAWYER DORRIS S. WILSON

### Student Assistants

### E. H. TWOMBLY

EDWIN N. JOHNSON

The Library under the terms of Mr. Clark's will received one quarter of his estate for the "support and maintenance of a University Library." Thus the Library is well endowed and is able to provide amply for the needs of all departments.

The Library is situated on the corner of Main and Downing Streets. A full description of the building and of the Proceedings at the Public Opening which was held January 14, 1904, will be found in the Publications of the Clark University Library for April, 1904 (Vol. 1, No. 3).

The Library contains over 134,000 bound volumes and pamphlets, and the reading room receives about 500 journals.

The books are grouped as follows:

K Religious Psychology

The books are grouped as rollows.				
A	Works of General Reference	L	Biography	
В	Journals	M	Anthropogeography	
C	Mathematics	N	Education	
CD	Mathematics-Physics	0	General Science	
D	Physics	P	History	
DE	Physical Chemistry	R	Political and Social Science	
E	Chemistry		Economics	
F	Biology, Zoölogy, Botany,	S	English	
	Physiology, Neurology	T	Modern Languages	
G	Geography	U	Classics	
H	Pathology	W	Practical Arts	
Ι	Psychology	X	Library Science	
J	Philosophy	Y	Art	

Tuesday and Friday mornings, each week, all books recently added to the Library are placed upon a table in the reference sec-

Z European War

tion, where they remain for three days. This affords the members of the University an opportunity to examine the new books in all departments before they are placed upon the shelves for circulation.

Particular attention is paid to the needs of students engaged in research work. The Library already possesses a good collection of complete sets of the best scientific periodicals. It makes liberal purchases for individual needs and supplements these by drawing upon the resources of the older and larger libraries through the inter-library loan system. The number of books added each year is about four thousand volumes.

The books in the Art Department are accessible on application to the Librarian, but, by the terms of the Founder's will, they cannot be taken from the building.

All the privileges of the Library are open to all members of the University.

The Library is open from 8 a. m. to 10 p. m. each week day (except on legal holidays), during term time and during the Summer School session.

### ART DEPARTMENT

In his last will and testament the Founder of the University bequeathed

"the sum of \$100,000, as an endowment fund for the Art Department of said University, and said sum is to be held and kept sacred and intact as a principal not to be used or expended under any conditions; but the income, interest or proceeds thereof shall be used only in putting and keeping said works of art or others given or obtained for said department in good condition and in taking care of them; and then if there is a surplus of the income of said fund, I will and direct that it be used in the purchase of additional works of art or of such matters as will add to the usefulness and efficiency of said Art Department."

Under these conditions a large room has been furnished and equipped on the upper floor of the Library Building. Upon the death of Mrs. Clark, those of the Founder's collection that were deemed most suitable for this purpose were arranged and displayed in this room, together with his most valuable books, which, by the conditions of the will, cannot be removed from the build-

ing. A complete catalogue of these books and paintings has been published in the Publications of the Library, Vol. 2, No. 1.

The Art Department is open daily (except Sundays and holidays) from 9 a. m. to 5 p. m.

Five portraits and two landscape paintings have been added to the collection:

1909. Portrait of the late Carroll D. Wright, president of Clark College from 1903 to 1909, by the late Frederick Vinton of Boston.

This painting was awarded the Temple Gold Medal at the 1909 Exhibition of the Pennsylvania Academy of Fine Arts.

1911. Portrait of G. Stanley Hall, president of Clark University from 1888 to 1920, by the late Frederick P. Vinton of Boston.

1913. Landscape painting, "Snowing," by Joseph H. Greenwood of Worcester.

1914. Portrait of Edmund C. Sanford, president of Clark College from 1909 to 1920, by Joseph De Camp of Boston.

1921. Portrait of Augustus George Bullock, member of the Board of Trustees from 1901 to 1926 and president of the Board from 1905 to 1919, by Leslie P. Thompson of Boston.

1925. Portrait of Wallace W. Atwood, president of Clark University since 1920, by John C. Johansen of New York.

1926. Landscape painting, "Sugar Loaf Mountain, Deerfield, Mass.," by Colin A. Scott. Dr. Scott was Fellow in Psychology at Clark, 1894-1896, and received the Ph.D. degree June 30, 1896.

To commemorate the twenty-fifth anniversary of the University the Board of Trustees, early in 1914, commissioned Mr. Victor D. Brenner of New York to prepare a medal to mark that event. The medal is made of bronze and is three inches in diameter. On the obverse side is delineated the head of President G. Stanley Hall, and on the reverse a beautiful allegorical group symbolizing the spirit of the University and the legend.

"Knowledge is proud that he has learned so much, Wisdom is humble that he knows no more."

Scale models of the buildings and the University grounds have been made by T. J. McAuliffe and Son of Worcester, under the direction of the architects, Messrs. Frost and Chamberlain.

Shortly before his death Dr. Sanford gave the Art Department a silver vase bearing an etching of Fuji-Yama and inscribed, "To Dr. E. C. Sanford from Nakanishi and Kakise, Tokio, 1921."

### THE UNDERGRADUATE DIVISION

(Clark College)

When the College was established in 1902, a three-year course was adopted as the normal one for the baccalaureate degree. This innovation was in part due to the emphasis placed upon a three-year course in the will of the founder, and in part the result of a conviction that properly prepared students could. under favorable conditions, secure in three years a training in no substantial degree inferior to that ordinarily obtained in a fouryear college course. Increasing pressure, on the one hand, for the admission of high school graduates who could not qualify for the three-year course and, on the other hand, for a larger development of extra-curricular activities, including athletics, has led to a modification of this plan. Beginning with the class which entered in September, 1922, a regular four-year course leading to the Bachelor of Arts degree has been offered. opportunity for completing the requirements for graduation in three years continues to be open to qualified students.

The College has a competent faculty, large in proportion to the number of students, and is well equipped for the work which it undertakes. It especially commends itself to earnest young men who wish to economize in either time or money. In accordance with the expressed wish of the founder, the tuition has been kept as low as possible. A general and well-balanced undergraduate curriculum leading to the degree of Bachelor of Arts is offered. Distinctively vocational or professional work is not offered. Certain departments, particularly the Department of Chemistry, have, however, been able to give a training which has enabled students to take up professional employment immediately after graduation.

A complete statement in regard to fees and expenses will be found on pages 28 and 29.

### SCHOLARSHIPS AND STUDENT AID

The Jonas G. Clark Scholarships established by the Trustees in January, 1925, provide scholarships of the value of one hundred dollars each to fifty undergraduates. These scholarships replace the smaller number of Undergraduate Scholarships previously available. Twenty of these scholarships are reserved for applicants for admission to the Freshman Class who rank in the upper quarter of their graduating classes in preparatory schools, eight of them being for graduates of the Worcester High Schools. Of the remaining thirty scholarships, ten will be reserved for each of the three upper classes for students who rank in the upper quarter of each class.

These awards are for the encouragement of high grade scholarship. In conformity with this purpose they are subject to the following conditions: (1) one-half the value of the scholarship will be deducted from the term bill of the holder at the beginning of each semester, (2) a scholarship will be automatically forfeited for the second semester if the holder fails to maintain a satisfactory rank in his college program during the first semester.

The Sanford Memorial Scholarship Fund. The alumni of the university have raised four thousand dollars to found a scholarship fund in memory of former President Edmund C. Sanford, the income from which is to pay the full tuition of some undergraduate. Included in the fund, by vote of the class of 1918, is its class gift to the University. The first award of the scholarship will probably be made in 1930-31.

The Livermore and Ambulance Scholarship was endowed by citizens of Worcester in honor of Charles Randall Livermore, Clark College, '17, the first Clark man to fall in battle, and of his companions in the Clark Unit of Ambulance Drivers. A scholarship of fifty dollars or more is offered from the income of the fund, to be awarded on the basis of academic success, character and usefulness to the College. The scholarship is open to students in regular standing in any class of the College who are residents of Worcester County.

THE HENRY A. WILLIS FUND of \$5,000 provides an annual scholarship for students coming from Fitchburg and vicinity,

but in the absence of a suitable recipient from this community other disposal may be made.

THE B'NAI BRITH SCHOLARSHIP is the income from a fund of \$2,000 provided by the Order of B'nai Brith, primarily but not exclusively for the aid of Jewish students.

THE CLARK UNIVERSITY FACULTY WOMEN'S CLUB offers a \$100 scholarship to be given to an applicant who ranks high in intellectual and personal qualities. The club is assisted by Alumnae and wives of Alumni. Application should be made to Chairman Scholarship Committee, Clark University Faculty Women's Club.

Applications for undergraduate scholarships should be filed at an early date on blanks which may be secured at the general office. Awards are made by the Collegiate Board.

The Board expressly reserves the right to award fewer than the full number of scholarships in any year if fewer than the full number of worthy candidates apply or if for any other reason this may seem advisable.

Aid which is given in the form of scholarships is not regarded as a loan. If however, those who avail themselves of such aid are able to return the amount in later years, the sums, whatever they may be, will be put into the Alumni Loan Fund of the College.

### LOAN FUNDS

THE ALUMNI LOAN FUND. Grants from this fund are made on recommendation of the President or Dean of the College in amounts determined by the need of the applicant but seldom in excess of one hundred dollars per year to any single applicant.

THE ESTABROOK LOAN FUND. This is a revolving fund created by the generosity of the late Arthur F. Estabrook of the Board of Trustees and now amounting to a total of about four thousand two hundred and fifty dollars. The fund is administered by the Dean of the College.

The loans from these two funds are covered by endorsed notes payable at a fixed date and bear interest from date at the rate of six per cent per year. Applications may be made at any time.

THE SARAH M. THURBER LOAN FUND. This fund has been established through the generosity of Dr. Charles H. Thurber,

President of the Board of Trustees, as a memorial to his mother. The fund is administered by the President of the University. Loans may be made from the income of this fund to either undergraduate or graduate students. Such loans will bear interest at the rate of six per cent per annum, and should be repaid as promptly as possible, so that other students may benefit from this foundation.

OTHER FUNDS. A special alumni loan fund has been contributed by L. Kelly Foster, C. B. L. Kelley, Isadore Lubin and H. M. Smith, and others. This fund amounts to about \$500.

### ADMISSION

Inquiries regarding admission and requests for blank forms should be addressed to the Dean of the College.

It is the practice to regard every admission as an "admission on trial" to the actual work at the College. A student whose record in either conduct or scholarship fails to meet the expectations implied by his admission may be required to withdraw at any time.

Applications for admission should be made as early as is practicable. Official transcripts of preparatory school records and certificates of character should be sent directly to the College by the school officials who sign them.

Special students are admitted to the University under the conditions stated on page 27.

### Admission to the Freshman Class

In addition to satisfactory references as to character, a fouryear high school course or its equivalent, including a total of 15 units of credit in acceptable subjects, is required for admission to the Freshman class. Two units are required in Mathematics (Algebra and Geometry). A single unit in a foreign language is not accepted. Commercial and industrial subjects will be credited to a total not exceeding three units. The term "unit" is understood to mean approximately one-quarter of a pupil's normal program of work for the school year.

An applicant for admission to the Freshman class should supply, on blanks furnished by the college:

1. A signed application for admission which should be forwarded by the principal of the school in which the applicant has prepared for college, after the "Personality Rating Scale" has been completed by a responsible officer of the school. This application should be filed with the Dean at the earliest practicable date.

2. A complete statement of his preparatory school record. This should be mailed to the Dean by the officer who signs it. (See statement below in regard to certificates).

In addition to the above, an applicant should supply records of any entrance examinations which he may have taken.

### CERTIFICATES

Applicants whose references are satisfactory and who present records from approved schools will be admitted (a) without conditions if they offer fifteen certified units of credit in acceptable subjects, or (b) with one or two conditions if they offer fourteen or thirteen certified units respectively in acceptable subjects.

Certificates are accepted from schools on the list of the New England College Entrance Certificate Board. Schools not on this list may receive "specimen" certification privileges by applying to the Secretary of the Board, Dean Frank W. Nicolson, Wesleyan University, Middletown, Conn.

A certificate from a school not on the list approved by the Board is not valid for admission unless the school lies outside of the jurisdiction of the Board.

### ENTRANCE EXAMINATIONS

Applicants from approved schools who cannot present at least thirteen certified units, and applicants from schools which do not have the certificate privilege should arrange in consultation with the Registrar to take examinations offered by the College Entrance Examination Board in June. Information concerning these examinations may be obtained from school officers or by addressing the Board at 431 West 117th St., New York City. Applications for examinations must be received by the Board before the end of May.

Those who make a satisfactory record in a designated set of examinations may be admitted to the college with or without conditions. The College will determine in each case what constitutes a satisfactory record in examination.

A final opportunity for making up entrance deficiencies by

examinations is offered at the college immediately before the opening of the academic year in September. These examinations are also provided by the College Entrance Examination Board, and are intended to be supplementary to those held in June. Admission to them is by special permission in each case. A fee of \$2.00 is charged by the college for each examination.

### Admission with Conditions

Admission with conditions is essentially admission on trial. It is not intended that such admissions shall involve the requirement of additional courses during the freshman year for students who are less well prepared than those admitted without conditions. All conditions will be terminated at the beginning of the sophomore year either by removal in the manner specified below or by additions to the requirements for graduation. Conditions may be in specified subjects or may be general, in the latter case indicating some deficiency in the high school course as a whole.

Conditions will be removed if at the end of the freshman year the conditioned students shall have met the normal scholarship requirements for regular standing, namely a rank above the lowest quarter in three-fifths of his courses and no failures. Conditions may also be removed by satisfactory records in College Entrance Board Examinations covering the conditioned subject in June or September following the freshman year.

Applications for examinations in September, for the removal of conditions, must be filed with the Registrar not later than the first of August preceding the date of the examinations. The fee of two dollars for each examination must be paid when applications are filed.

Each condition not removed at the beginning of the sophomore year will be replaced by an additional requirement for graduation amounting to three semester hours.

### Admission to Advanced Standing

A student who wishes to enter the College after previous study at another institution of college grade is required to submit a letter of honorable dismissal, a complete transcript of his record at the last institution attended and such other information as the Committee on Admissions may request. If he is admitted he will be provisionally assigned to the Freshman, Sophomore, Junior, or

Senior class and will be permitted to register for such courses as he is prepared to undertake. He will not be given a final class rating or a definite amount of credit for work done elsewhere until he has been in residence for at least one semester. After satisfying this requirement as to residence he will be given credit for the work done at any other institution to an amount depending in each case upon the time spent upon it, the grade received, and upon the record made here. Such credit is granted by the vote of the Collegiate Board upon the recommendation of the Registrar.

The Bachelor's degree will not be conferred upon a student who has not spent at least a year in residence here, and usually not unless the time in residence includes the two semesters immediately preceding the granting of the degree.

### FACULTY ADVISERS

When a student is accepted by the Committee on Admissions he is assigned to a member of the Faculty who will act as his adviser. The adviser will assist the student in making up his program of studies for registration and will be ready at all times to afford him help and counsel, either in regard to problems of the student's college life or other matters. The student should consult with his adviser as soon as possible in order to outline his program of studies before the opening of the college year. In all cases of action directly affecting a student the adviser is his representative before the Faculty and will present the student's views and desires.

### REGISTRATION

When a student is accepted for admission he is given a card authorizing him to matriculate. This card, when receipted by the Bursar as evidence of payment of the matriculation fee, is his authorization to register.

Registration days are the first day of the academic year and the tenth day (Thursday) before the beginning of the second semester. Failure to register on or before these days involves a fine of \$1.00 for each day's delay up to a maximum of \$5.00.

A student's record of attendance begins with the first day of the semester, and no credit for attendance is given until registration is completed. In cases of delayed registration unexcused absences are recorded for all scheduled meetings of courses unless excuses acceptable to the Collegiate Board are presented.

During the first week of any semester changes of courses may be made for sufficient reason with the written approval of the student's adviser and the instructors concerned. After the first week of any semester no changes may be made except such as are authorized by special vote of the Faculty or of the Collegiate Board.

Freshmen may register for programs of either fifteen or eighteen hours of college work per week in the first semester. After the first semester of the freshman year programs of eighteen or more hours per week are restricted to students whose average rank in all courses is 50th among 100 or better, except in the case of seniors. A senior whose graduation at the end of the year depends upon the completion of a program of six courses may register for such a program in either semester if his average rank for the preceding semester is as high as 75th among 100.

The election of a *major* and *minor* is required as a part of registration at the beginning of a student's second year in College. This election when once recorded may be changed only at the beginning or end of a semester, and then only with the approval of the Dean. Although the *major* and *minor* are not officially regarded as fixed until the student's second year in College, he should plan his course from the beginning as definitely as possible with his probable choice in view.

### THE CURRICULUM

The curriculum is arranged upon a plan which permits considerable freedom of adjustment to individual differences of interest. Each student's program of studies contains two principal subjects (a major and a minor) together with required courses in English, Fine Arts, and certain subjects chosen in accordance with rules intended to insure a reasonable distribution of work among the various departments. A large part of each program is made up of courses chosen without restriction.

A major consists of at least twenty-four semester hours and a minor of at least eighteen semester hours made up of such courses as are specified in the announcements of the various departments.

In order to facilitate the statement of requirements, the departments of instruction are grouped in three divisions:

### Division A\*

Biology, Chemistry, Geology, Mathematics, Physics, also the following individual courses: Geography 12, Psychology 12.

### Division B

Economics and Sociology, Geography, History and International Relations, Psychology.

### DIVISION C

Ancient Languages, English, German, Romance Languages.

### STUDENT PROGRAMS

Regular students normally carry programs which yield a credit of fifteen or sixteen semester hours for each semester, in addition to the required work in Physical Training. These programs may include lectures, recitations, or work in laboratories. In general it is expected that all courses will require two hours of preparation for each lecture or recitation. Three hours are assumed for each laboratory period, which is counted as the equivalent of an hour of recitation and its two hours of preparation.

A student carrying the regular program should expect his college work to require from forty-five to fifty hours of his time per week, in addition to the work in Physical Training.

Candidates for the Bachelor's degree in less than four years will generally carry programs of from eighteen to twenty hours per week and should expect to spend practically their entire time on their college work.

Each student elects one of the thirteen departments in which he will complete a *major*, and a related department in which he will complete a *minor*. The choice of *major* and *minor* usually involves certain specific requirements in other subjects. For these and for statements as to what particular courses may be used for a *major* and a *minor* the announcements of the different departments should be consulted.

First year students must make up their programs entirely from courses designated as "Open to Freshmen." The program for the freshman year must include:

<sup>\*</sup>Courses in the history of the various sciences may not be counted in fulfillment of the requirement 2f, page 47.

- 1. English 11.
- 2. A course in Foreign Language.
- 3. A course in Division A.
- 4. A course in Division B.
- 5. An elective. Mathematics 10 or 11 for students intending to major in Division A.

Second year students should, as a rule, complete the requirement in English, continue work in Foreign Language, and complete the requirements f and g listed under 2 below. A course in Appreciation of the Fine Arts is a requirement for second year students unless they have completed this course with a satisfactory record in the first year.

Undergraduates, other than Freshmen, may enter any course listed "primarily for undergraduates," for which, in the judgment of the instructor in charge, they are prepared. Seniors and Juniors who have completed the published prerequisites are admitted, at the discretion of the instructor in charge, to courses listed "for graduate students and advanced undergraduates." Undergraduates are not admitted to courses "primarily for graduate students" except in rare cases, and then only by special vote of the Collegiate Board and of the Graduate Board.

### PHYSICAL TRAINING

Regular gymnasium exercise is required of all students (with certain exceptions) for the general promotion of their health and mental efficiency. The hours at which this work is given are set at times which avoid conflict with recitation hours.

## REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

- 1. A minimum period of study in residence of three academic years.
- 2. One hundred and twenty semester hours of credit with a satisfactory standing, in addition to the required work in physical training.

The 120 hours required for graduation must include:

- a. A major of not less than twenty-four semester hours.
- b. A minor of not less than eighteen semester hours.

c. A requirement depending on the choice of the *major* subject, six semester hours.

Those in Division A must take Mathematics 10 or 11 in the freshman year.

Those majoring in Division B must take either Greek, Latin, Mathematics or a third year college course in a modern foreign language, subject to the apporval of the department in which the *major* lies.

Those majoring in Division C must take Greek or Latin in the Freshman year. This requirement is waived if two units of Greek or Latin are presented for admission.

Work taken in fulfillment of this requirement (c) may also be counted toward the fulfillment of requirement (e) or (f).

- d. *English*, twelve semester hours, including English 11 required in the first year, and six semester hours additional required before the end of the third year. Fine Arts 1 is not counted in fulfillment of this requirement.
- e. Foreign Language, at least thirty semester hours including credits accepted for admission. Foreign language accepted for admission will be credited towards the fulfillment of this requirement on the basis of six semester hours for two units of preparatory work in one language, twelve semester hours for three units in one language and eighteen semester hours for four units.

One foreign language course of at least second year college grade must be taken in college.

The thirty semester hours required may be divided between any two languages or among any three, but not less than six semester hours will be accepted in any one language and at least eighteen semester hours are required in one language.

f. Division A, twelve semester hours for students whose High school course included two or three units of Science in addition to Mathematics. For students who presented only a single unit of Science, this requirement is eighteen hours. For students who presented four units of Science, the requirement is reduced to six semester hours.

This requirement if more than six hours must be divided between at least two departments, and six semester hours of it must be in some one laboratory course in Biology, Chemistry, Geology, or Physics.

g. Division B, twelve semester hours for students whose High School course included two or three units of History or related subjects. For students whose high school course included only a single unit in this field, the requirement is eighteen semester hours. For students whose high school course included four units in this field, the requirement is reduced to six semester hours.

This requirement if more than six hours must be divided between at least two departments with not less than six semester hours in any department.

- h. Appreciation of the Fine Arts, a semester course, three hours per week, required before the end of the second year.
- 3. Physical Training, three hours per week through the course except during the second semester of the senior year. Any student may be excused from this requirement for adequate reasons.

Students who satisfy all of the foregoing requirements will be recommended for the degree of Bachelor of Arts unless in the judgment of the Faculty there is cause for withholding this recommendation.

### GRADING AND SCHOLARSHIP

A student's scholarship record is determined by his relative standing in each of his courses.

College regulations concerning scholarship are based on the fundamental assumption that in any large class the major portion will do fairly satisfactory work and that the remainder will be about equally divided between those who clearly rank above and those who as clearly rank below the group just mentioned.

In recognition of the superior quality of work necessary to insure a high rank, additional credit is given to students who are ranked in the upper quarter in any three-hour course. This extra

credit amounts to 0.5 hour for ranks from 1 to 5, 0.3 hour for ranks from 6 to 15 and 0.2 hour for ranks from 16 to 25.

Courses in which a student is ranked in the lowest quarter of the class may be counted toward the A.B. degree only when combined with courses in which the rank is higher, in the proportion of 2 hours of credit in the lowest quarter to 3 hours of credit ranked above the lowest quarter.

### CLASSIFICATION OF STUDENTS

Students are classified as Freshmen, Sophomores, Juniors and Seniors, on the following basis:

A student who, at the beginning of any academic year, has credit of less than 15 semester hours, is classified as a Freshman for that year.

A student, who, at the beginning of any academic year, has credit of 15 hours or more, but less than 48 hours, is classified as a Sophomore for that year.

A student, who at the beginning of any academic year, has credit of 48 hours or more, but less than 84 hours, is classified as a Junior for that year.

A student, who, at the beginning of any academic year, has credit of 84 hours or more, is classified as a Senior for that year.

A student who has announced his intention of becoming a candidate for the degree of Bachelor of Arts in three years and who, at the beginning of his third year has completed eighty semester hours or more of credit, is classified as a Senior for that year.

Any student, who, at the beginning of the second semester, is clearly in a position to complete the requirements for the degree before the beginning of the next academic year, is classified as a Senior for the second semester.

### HONORS

"First Honors" and "Second Honors" are awarded annually to those members of each class who have, in the judgment of the Faculty, distinguished themselves by their scholarship during the year.

The Bachelor's degree is awarded "With Honor," "With High

Honor," and "With Highest Honor" to those members of each graduating class who have made the most creditable records.

In 1914 the Clark Scholarship Society was organized. The society is similar in aims to the Society of Phi Beta Kappa. Its object is, "to maintain a high and broad conception of scholarship; to encourage devotion to scholarship, so conceived; to promote a close relation for mutual benefit between the undergraduate members and the faculty members of the Society." Membership in the Society is open to members of the faculty. New student members are normally elected at the end of each year from among the men of high standing in the Junior Class. The Faculty makes nominations and the undergraduate members of the Society elect from the men so nominated. Additional nominations are made at the middle and end of the senior year.

### STUDENT LIFE

It has always been the policy of the University to give to its students the greatest possible individual liberty of action and to adopt few rules of conduct.

It is assumed that each student will conform to the recognized standards of morality, good order, and gentlemanly conduct, that he will not absent himself unnecessarily from University exercises at which he is due, and that he will give his serious and constant attention to his work as a student.

While encouraging the fullest possible measure of student self-government, the College recognizes the fact that the individuals and groups among the undergraduates require a reasonable amount of oversight in their various undertakings.

Undergraduate organizations are under such control as will insure proper caution and recognition of responsibility in business dealings.

Participation in extra curricular activities is denied to those students only whose scholarship record is such as to indicate that further encroachment upon their time and attention may interfere with the completion of their course. In accordance with this principle, a student is "ineligible" for the following half semester if at any report period

- (a) he fails more than one course.
- (b) he fails one course and does not secure ranks above the lower quarter of the class in two subjects.
- (c) he passes all courses, and does not secure a rank above the lowest quarter of the class in at least one subject.

Students admitted with advanced standing from another college are "ineligible" for the first semester of residence here, and special students are "ineligible."

The general supervision of intercollegiate athletics is committed to an athletic Board consisting of the Director of Physical Training, the Committee on Athletics of the Collegiate Board, two alumni elected by the Alumni Association, and nine student members. The actions of this Athletic Board are subject to review and veto by the Committee on Athletics.

Opportunity for relaxation and the meeting of students and faculty on a basis of general sociability is provided by the various clubs in which both students and faculty participate.

Student activities include a Glee Club and Orchestra which give a series of concerts in Worcester and elsewhere during the winter; a Debating Society whose members have made an enviable record for the University in intercollegiate debates; the Gryphon, a senior honor society, and many other organizations.

The Dramatic Association is a very active student organization which presents a number of plays each year under the direction of Professor George E. Baker of the Department of English.

The Sub-Freshman Day, in the spring, those who have some expectation of entering the College in September are guests of the University for the purpose of establishing mutual acquaintanceship.

THE CLARK QUARTERLY, a review of college life and letters, and THE CLARK NEWS, a weekly undergraduate publication are published by the students.

### THE GRADUATE DIVISION

### GENERAL INFORMATION

Admission to the Graduate Division is open to properly qualified persons, both men and women.

Instruction and opportunities for original research leading to the degree of Master of Arts and Doctor of Philosophy are offered by the following departments:

Economics and Sociology

Geography

History and International Relations

Psychology

Work leading to the degree of Master of Arts only is offered by the departments of Chemistry and Physics.

The other departments offer courses of an advanced nature which, with the consent of the Graduate Board, may be included in the programs of graduate students, but are not prepared at present to offer complete programs leading to the higher degrees.

A complete statement regarding tuition and expenses will be found on pages 28 and 30.

Fellowship stipends for graduate students are provided annually from the income of the George F. Hoar Fund of one hundred thousand dollars, the gift of Andrew Carnegie. Other financial assistance is made possible by University grants and by various bequests.

### SCHOLARSHIPS AND FELLOWSHIPS

The University awards annually a number of scholarships yielding tuition and in some cases an additional stipend up to \$200 (see page 55), and fellowships yielding tuition and additional stipends up to \$800 (see page 55).

The American Antiquarian Society Fellowship in American History, having a value of \$300 in addition to the remission of tuition, has been established by members of the American Antiquarian Society. This fellowship will be awarded to a student whose major is in American History.

### STUDENT AID

Student aid is available from the following funds, with the restrictions noted. Applications should be filed not later than

Jan. 30

A CITIZEN'S FUND has been established by a citizen of Worcester in the sum of five thousand dollars, the income of which is to be used for the aid of "some one or more worthy native born citizens of the City of Worcester who may desire to avail themselves of the advantages of the institution." The benefits of this fund are available to graduate students only.

THE JOHN WHITE FIELD FUND, the income of which is "to provide for the minor needs of a Scholar or Fellow," has been established by Mrs. Eliza W. Field. The fund amounts to five hundred dollars.

The following regulations apply to the award of the income of the Field Fund:

- 1. Regard is had to the intellectual ability of the candidate as well as to the need of pecuniary assistance.
- 2. Only candidates who have spent three months in graduate work at the University are considered.
- 3. The head of each department will consider and report to the Faculty desirable cases in his department.
- Applications are received not later than January 30, and the awards made as soon as possible after the beginning of the second semester.

THE ELIZA D. DODGE FUND is a sum of one thousand dollars the income only of which is to be expended to aid graduate students of limited means engaged in research work.

THE SARAH M. THURBER FUND. This fund has been established through the generosity of Dr. Charles H. Thurber, President of the Board of Trustees, as a memorial to his mother. The fund is administered by the President of the University. Loans may be made from the income of the fund to either undergraduate students or graduate students. Such loans will bear interest at the rate of six per cent per annum, and should be repaid as promptly as possible, so that other students may benefit from this foundation.

### LIBRARY FACILITIES

In addition to the library facilities provided by the University (see pages 34 to 36) students may avail themselves of the privileges of several other excellent libraries in the city. The Worcester Public Library contains some 237,000 volumes and makes accessible to the public about 600 newspapers and magazines, The library of the American Antiquarian Society, housed in the national headquarters of the society in Worcester, contains about 136,000 volumes and some 202,000 pamphlets. The library of the Worcester District Medical Society is also at the disposal of members of the University.

On the following pages are printed the rules of the Graduate Board governing admission, scholarships and fellowships, candidacy, theses, examinations, and degrees for graduate students in Clark University.

### ADMISSION TO THE GRADUATE SCHOOL

Eligibility. Admission is granted only by the Graduate Board on recommendation of a department. A graduate of more than average ability from a college or university that was on the approved list of the Association of American Universities at the time his bachelor's degree was obtained is eligible for admission as a regular graduate student. A graduate of superior attainments from a four-year college not on the list, is normally eligible for admission only as a special graduate student.

Making application. A prospective applicant should communicate with the department in which he expects to do his major work, to learn whether his preparation is satisfactory, and whether he is likely to obtain the department's endorsement of his application. The application should be made on a blank form which may be had from the Registrar or Secretary. This application, together with official certificates of previous undergraduate and graduate work, and if possible, of the applicant's rating in a standard intelligence test, should be filed with the Secretary of the Graduate Board. Any other information, including published or unpublished theses or other writings of the applicant, that would be helpful in showing the Board the applicant's qualification should be sent.

Admission. In granting admission, with the advice of the department the Graduate Board may prescribe a minimum period of residence never less than one year, and other definite requirements, including courses in particular subjects, as prerequisites for a graduate degree. Admission to the Graduate School does not in any way imply admission to candidacy for a degree. Admission to the Graduate School is granted for entry only at the specified time, and lapses if the student fails to enter at that time. If, after an applicant has entered as a regular student, his period of graduate study is broken by more than a year, he must make formal application for re-instatement. A special graduate student is admitted only for a specified period, not exceeding one academic year.

Admission of a special graduate student to regular graduate standing. After a semester or its equivalent of residence and upon recommendation of his major department, a special graduate student may be admitted by the Board to regular graduate standing.

Undergraduates and non-graduate special students in graduate courses. Admission of other than regular or special graduate students to a course "Primarily for Graduate Students" may be granted by the Graduate Board only on formal recommendation in each person's case by the department in which the course is offered.

### SCHOLARSHIPS AND FELLOWSHIPS

### GENERAL REGULATIONS

- 1. Scholarships and fellowships (except Honorary appointments) are for prospective candidates, respectively, for the degree of Master of Arts and of Doctor of Philosophy at this University.
- 2. All applications for scholarships and fellowships shall be filed by the applicant's major department with the Secretary of the Graduate Board on a form approved by the Board. Each application must carry the written explanatory, favorable or unfavorable, recommendation of the department and must be accompanied by supporting data. Applications when properly endorsed, as provided above, will be considered by the Committee on Credentials, which will report to the Graduate Board the names

of all applicants together with the recommendations of the Committee. The Secretary will notify applicants of the action of the Board.

- 3. An appointment will become effective when an acceptance in writing is filed with the Secretary of the Graduate Board within 15 days of the date of notification.
- 4. For most favorable consideration applications for appointments for the succeeding academic year should be in the hands of the Secretary by March 1st.
- 5. Scholarships or fellowships are not transferable from one department to another except with the approval of the Graduate Board.
- 6. A scholar or fellow shall not engage during the term of appointment in any occupation that may interfere with his duties as a full-time graduate student unless he obtains permission from the Graduate Board to do so.

### SCHOLARSHIPS

Scholarships may be awarded to students of high rank who may be expected to fulfill the requirements for the Master's degree in the normal time. These scholarships are valued at \$100 to \$400. This is equivalent to half or full tuition with, in some cases, an additional stipend of \$50 to \$200.

### FELLOWSHIPS

Fellowships valued at \$200 to \$600, which are equivalent to tuition alone or to tuition and an additional stipend of from \$50 to \$400, may be awarded to competent full-time, regular graduate students who have completed an amount of graduate work equivalent to the requirements for the M.A. degree. Fellowships valued at \$200 to \$1,000, equivalent to tuition alone or to tuition and an additional stipend of \$50 to \$800, may be awarded to competent graduate students who give promise of completing their work for the degree of Doctor of Philosophy by the end of the academic year for which the appointments are made.

Some of these fellowships will be designated as research fellowships or teaching fellowships, with the consent of the applicant and on the recommendation of the department, in cases where

research or teaching assistance in the department is to be a duty of the fellow. Where the research or teaching duties in such fellowship or in an assistantship would prevent a scholar or fellow from carrying a full program of studies during the academic year, he may nevertheless qualify for full-time credit for the year through an adequate summer program of research or reading directed by the major department and approved by the Graduate Board.

### HONORARY FELLOWSHIPS

Distinguished visitors may be appointed Honorary Fellows for specified periods at the discretion of the Graduate Board. Such appointments entitle their holders to all university privileges and carry freedom from tuition charges, but no additional stipends are given.

### RULES AND REGULATIONS

### PROGRAMS OF STUDY

Programs of study of all students in the Graduate School, approved by departmental staffs, must be submitted to the Secretary of the Graduate Board by October 1 and February 10 each year. The Secretary shall scrutinize these programs and report any irregularities to the department concerned or to the Board.

### LANGUAGE REQUIREMENTS

Requirement in English. A student who wishes to become a candidate for a higher degree during his first year of residence may be required to come before the Committee on Language Examinations before admission to candidacy, for a test of the adequacy of his knowledge of English in respect to speaking, reading and writing.

A candidate for a graduate degree after more than one year of graduate study must satisfy his major department in respect to his knowledge of English.

Foreign Languages. A prospective candidate for the Ph.D. degree is advised to prepare himself early for the oral examinations in reading modern languages. French and German are required except in cases where the Graduate Board may authorize

the substitution of another language for one of these. A student must present himself for these examinations not later than Feb. 1 of his first year of residence at Clark beyond the M.A. degree. When he is ready for either or both he is to notify the Secretary of the Graduate Board, who will arrange for the examination to be held within two weeks if possible. These examinations are conducted by a committee composed of a representative of one of the modern language departments, and a representative of the student's major department. The committee shall report the results of the examination to the Secretary of the Board. Other additional language requirements may be imposed by the student's major department.

### RESIDENCE

A regular academic year of full-time study or its specified equivalent in residence at Clark University is a prerequisite for any degree. Only the following is recognized as equivalent to a regular academic year: one full semester of the regular academic year and the equivalent of 18 other weeks on a full-time program of graduate work approved by the Graduate Board may be accepted as meeting the residence requirements for the degree of Master of Arts. Residence work is broadly defined as work done under the immediate personal supervision of at least one member of the university faculty. A field trip led by a member of the faculty is considered as providing an opportunity for work in residence.

### THE DEGREE OF MASTER OF ARTS

Admission to Candidacy. Regular students who have been admitted to the Graduate School without condition, or others who have met any special requirements imposed by the Graduate Board, may, when they have demonstrated their ability to do satisfactory work in the University, be accepted, by the Graduate Board, as candidates for the degree of Master of Arts. An application for admission to candidacy for the Master's degree will be considered by the Graduate Board when the student has:

- 1. Completed one semester of full-time graduate work or its equivalent in residence at this university.
- 2. Paid the diploma fee (\$10.00) and publication fee (\$10.00), and

3. Obtained the written endorsement of his major department.

Applications should be filed with the Secretary of the Graduate Board not later than the first week of the last full semester which the student expects to spend in residence as a candidate for the degree. Unless extended by action of the Graduate Board, candidacy for the Master of Arts degree lapses at the end of three years. When candidacy expires without the degree having been awarded the diploma and publication fees, less any expenses incurred, will be returned.

Course requirements. In order to insure that the student may obtain the necessary training, he must meet a minimum course requirement of 18 semester hours in addition to his research work. The subject-distribution of the courses of each candidate must have the approval of the candidate's major department.

Examinations. The candidate must make a satisfactory record in such written examinations as may be required by the major department, and a final oral examination of approximately one hour's duration by a committee of three or more, two of whom shall be members of the Graduate Board. The major department shall make a written report to the Secretary of the Graduate Board, not later than 9 A. M. of the Friday preceding Commencement, stating the ground on which the candidate is recommended for the M.A. degree.

Thesis. The candidate must demonstrate that he has a comprehensive knowledge of his field of study and is capable of carrying on, under direction, a satisfactory investigation in that field. He must submit to his major department, by May 15 of the year in which the degree is to be conferred, a thesis on an approved topic and two copies of an approved abstract of it. The thesis shall be in a prescribed form and shall bear upon the title page the following statement.

"A thesis submitted to the Faculty of Clark University, Worcester, Massachusetts, in partial fulfillment of the requirements for the degree of Master of Arts in the Department of \_\_\_\_\_\_ and accepted on the recommendation of

(Name of Chief Instructor)"

The abstract should not exceed 600 words in length and should bear the written statement,

"Abstract Approved for Publication"

(Name of Chief Instructor)"

The thesis and two copies of the abstract shall be delivered to the Secretary of the Graduate Board not later than 9 A. M. of the Friday preceding Commencement.

Additional copies of the thesis or abstract may be required by the major department.

### THE DEGREE OF DOCTOR OF PHILOSOPHY

Course of Study. Only such candidates as give evidence of general proficiency, power of investigation and high attainments in the special field in which their major subjects lie will be encouraged to proceed to the degree of Doctor of Philosophy.

A graduate student who expects to proceed to the Doctor's degree shall select a major subject of study, and at least one minor subject with the approval of the department in which the major subject lies.

Admission to candidacy. An application for admission to candidacy for the Ph.D. degree will be considered by the Graduate Board when the applicant has:

- 1. Completed two full academic years of graduate work or its equivalent;
- 2. Passed examinations in at least two foreign languages; French and German are require except in cases where the Graduate Board may authorize the substitution of another language for one of these.
- 3. Passed a preliminary examination in his major and minor fields of study.
- 4. Paid the diploma and publication fees (\$25.00 and \$15.00);
- 5. Filed with his major department an application for admission to candidacy, stating the subject of his dissertation, and
- 6. Obtained the endorsement of the application from his major department.

Admission to candidacy for the Ph.D. degree shall hold good only for three years from the date of the vote granting admission to candidacy. When candidacy expires without the degree having been awarded, the diploma and publication fees, less any expenses incurred, will be returned. Applications for admission to candidacy must be filed not later than November first, in any academic year, by students who hope to receive the degree at the end of that academic year.

Dissertation.

For the degree of Doctor of Philosophy an indispensable requirement is a dissertation upon an approved subject, to which it must be an original contribution of value.

Not later than May 1, the dissertation, with an abstract not exceeding 1,200 words in length, must be presented to the instructor under whose direction it is written. The dissertation shall contain a title page with the following statement.

The dissertation and abstract must be accepted by the chief instructor before the final examination may be held. In every case the dissertation shall be laid before the examining committee at the time of examination, with the comments of the chief instructor and other readers.

The complete copy and two copies of the abstract of the dissertation shall be delivered by the department to the Secretary of the Graduate Board not later than three days before Commencement. The dissertation and one copy of the abstract will be deposited in the Library, where they shall remain permanently, not subject to withdrawal.

If and when a dissertation is published, five of the printed copies should be presented to the Clark Library; four copies to be retained by the Library and the other to be presented to the Library of Congress for its annual list of American doctoral dissertations printed.

At the final examination the student will be expected to defend his dissertation and, at the discretion of the examining committee, he may be questioned over the entire field of his study. The final examination will be at least a two-hour oral examin-

ation. Additional written examinations may be given at the discretion of the departments concerned. The oral examination will be held by a committee of at least four members, including the chairman and one other representative of the department in which the candidate has done his major work, one or more representatives of the department or departments in which the candidate has elected his minor subjects, a member of the graduate Board under whom the candidate has done no work, and such other members of the Graduate Board as care to attend.

The President of the University is authorized to invite any person from within or without the University to be present and assist in the examination. The committee shall in each case appoint a clerk who shall report the results of the examination to the Secretary of the Graduate Board.

The Secretary of the Graduate Board shall prepare and publish a schedule of examinations and the examining committees for the degree of Doctor of Philosophy at least one week before the beginning of such examinations.

Each department shall render final reports in writing on all candidates for the degree of Doctor of Philosophy not later than 9 A. M. of the Friday preceding commencement.

# THE GRADUATE SCHOOL OF GEOGRAPHY

Work in Geography is carried on by the Graduate School of Geography which is organized with a faculty of specialists in the various branches of the subject. The School occupies a well equipped building, including lecture rooms, offices and work rooms, and is directly connected with the William Libbey Geographical Library and the University Library.

Degrees in Geography are granted by the University on the same terms as in other fields of study.

### STAFF

Wallace W. Atwood, Ph.D., Professor of Physical and Regional Geography and Director of the Graduate School of Geography.

ELLEN C. SEMPLE, LL.D., Professor of Anthropogeography. CHARLES F. BROOKS, Ph.D., Professor of Meteorology and Cli-

matology.

Douglas C. Ridgley, Ph.D., Professor of Geography in Education, Director of Home Study and of the Summer School.

CLARENCE F. JONES, Ph.D., Professor of Economic Geography. W. Elmer Ekblaw, Ph.D., Professor of Geography, Assistant

Editor, Economic Geography.

CURTIS F. MARBUT, Ph.D., Special Lecturer on Soils.

GUY H. BURNHAM, A.M., Cartographer.

George B. Cressey, Ph.D., Assistant in Physiography.

### Other Members of the University Staff Offering Closely Related Work

George H. Blakeslee, Ph.D., Professor of History and International Relations.

ALFRED L. P. DENNIS, Ph.D., Professor of Modern History.

J. B. Hedges, Ph.D., Professor of American History.

Homer P. Little, Ph.D., Professor of Geology.

Samuel J. Brandenburg, Ph.D., Professor of Economics and Sociology.

James Ackley Maxwell, Ph.D., Associate Professor in Economics.

ROBERT H. GODDARD, Ph.D., Professor of Physics.

Vernon A. Jones, Ph.D., Associate Professor of Educational Psychology.

ARTHUR F. LUCAS, Ph.D., Associate Professor of Economics and Sociology.

DAVID POTTER, M.Sc., Assistant Professor of Biology.

PAUL W. SHANKWEILER, A.M., Assistant Professor of Sociology.

### GENERAL STATEMENT

During the last few years the American people have been awakened, in a remarkable way, to an interest in Geography. Since the period of isolation in national development is passed, they have come to realize almost suddenly, that the United States of America is one of the leading nations of the world and vitally interested in foreign countries and their problems.

This awakening, and the consequent broadening of our horizon, have forced us to recognize that we have neglected in this country the scientific study of Geography. Many of the universities and colleges of this country are now calling for trained geographers. Commissioners of education, normal schools, and high schools are looking for men and women who can serve as supervisors or as special teachers in Geography. The large financial houses are endeavoring to train men in Commercial Geography in their own schools. The Departments of the Government are now using trained geographers, and the Civil Service Commission has recently recognized that no one should enter consular or diplomatic service who has not been trained in the geography of this country and the world. The intelligent reading of current literature is demanding an increasing knowledge of the peoples and of the conditions in distant lands.

The Graduate School of Geography gives opportunity to properly qualified students to secure advanced training in Geography. The staff is composed of specialists in the various fields of Geography. They must of necessity spend a portion of their time in travel and in field studies, but while in residence, they offer regular courses of instruction and direct advanced students in research

work. It is not the intention to offer all courses of instruction each year; many of them are given once in two years. Abundant opportunities for instruction are provided, but graduate students are advised not to burden themselves by attending too many lecture courses. They must depend very largely for their growth upon their individual efforts in research, under the direction of members of the staff. The map collection and the Library offer them unusual facilities for research work in residence, but it is hoped that all graduate students, before completing their university work, may undertake field studies.

Advanced studies in History, Economics, and Sociology, as well as a reading knowledge of the modern languages, are important to all students of Geography, and the attention of such students is called to the announcements in those departments.

The Graduate School of Geography aims to promote, in every way possible, productive scholarship, and to train those who wish to enter the profession to become leaders in their chosen fields of work.

The publication of *Economic Geography*, issued quarterly, was begun in 1925.

A complete statement regarding tuition and expenses, Fellowships and Scholarships, and general conditions of work will be found on pages 28 and 52.

Undergraduates planning to go on into graduate work in Geography are urged to consult the Geography Staff early in their undergraduate course, so that such fundamentals as Physics, Chemistry, Biology, Geology, English, German, French, Economics and History will not be neglected.

#### GEOGRAPHY COURSES FOR COLLEGE STUDENTS

For a major in Geography the following sequence of courses through the four years is recommended:

#### First year:

Fundamentals of Geography (Geog. 10a) First semester. Geography of North America (Geog. 181b) or Geography of Europe (Geog. 185b) Second semester.

Second and Third (or Fourth) years:

Weather and Climate (Geog. 12) Through the year.

General Geology (Geol. 12) Through the year.

Conservation of Natural Resources (Geog. 100a) First Semester.

Geography of Europe (Geog. 185b) or Geography of North America (Geog. 181b) Second Semester.

Fourth year:

Economic Geography (Geog. 26a) First semester.

Geography in Education (Geog. 29b) Second Semester.

The Geography of North America and of Europe are given alternate years, North America to come in 1930-31, and Europe, 1931-32. Weather and Climate, also given in alternate years, is to be offered in 1930-31. All other courses are given every year.

For a minor in Geography, the Fundamentals and either North America or Europe are recommended for the first year, Weather and Climate or General Geology for the second, and Conservation of Natural Resources or Economic Geography and a regional course for the third.

Additional courses recommended for majors or minors in Geography are as follows:

Freshman year:

General Physics (Physics 11) Through the year.

Sophomore or Junior years:

Principles of Economics (Ec. 11) Through the year.

A Survey of International Relations (Hist. 18) Through the year.

Senior year:

The Historical Geography of the United States (Hist. 211a) First Semester.

Courses on the Passing Weather (Geog. 221) and Meteorology (Geog. 22), following that on Weather and Climate (Geog. 12), are open to Juniors and Seniors, while still more advanced work, in Physics of the Air (Physics 29), may be had in the department of Physics.

German and French, one for two years and the other for three, English for at least two years, Ancient and Modern History, Chemistry, and Biology or Botany are also recommended as collegiate foundations for advanced work in Geography.

# ADMISSION TO THE GRADUATE SCHOOL OF GEOGRAPHY

The Graduate School of Geography is open to any who wish to receive professional training in Geography, and who are qualified to enter the Graduate Division of the University and take advanced work in Geography. Undergraduate preparation for advanced work, as indicated by the college programs above, should include the following subjects:

Geology Physics Weather and Climate Biology, esp. Ecology Chemistry Economics
History
Fundamentals and Regional
Geography
English, two years
French or German, two years

Degrees of Master of Arts and of Doctor of Philosophy are conferred. For the A.M. degree two years will be required, except for those whose preparation the faculty considers sufficient to permit them to qualify in less time.

A special feature of the program of geography courses is the rather closely synchronized sequence on the physiography, climatology, plant geography and agriculture of the various regions of the Eastern Hemisphere one year and of the regions of North America another. Coupled with the courses on geographic aspects of world trade and of the foreign trade of the United States, in corresponding years, these sequences constitute a sort of supercourse on regional geography. The schedule is so arranged that on Mondays and Wednesdays the second semester, the physiography comes at 9, the climatology at 10, the plant geography at 11, and the agricultural geography at 2—all as nearly as possible for the same regions on the same days. The North American group of courses will be offered in 1930-31.

In the Summer School each year (see page 82) many members of the geography staff offer both elementary and advanced courses. These are acceptable both for preparation for graduate work and for meeting the requirements for the A.M. degree in part.

# GEOGRAPHY COURSES FOR GRADUATE STUDENTS Offerings for first year students

First Semester
Field Methods and Studies
(Geog. 392a)
Interpretation of Physiographic
Features (Geog. 21a)
Climatology (Geog. 22a)
Taxonomy and Ecology of
Plants (Biol. 24a)
Agricultural Geography and

Land Utilization (Geog. 25a)

Economic Geography (Geog. 26a)

Second Semester

North America (Altern. yrs.):
Physiographic Regions
(Geog. 311b)
Climate (Geog. 321b)

Climate (Geog. 321b) Plant Regions (Geog. 341b)

Agricultural Regions (Geog. 351b)

Geographic Aspects of U. S. Foreign Trade (Geog. 362b) (Alt. yrs.)

Geography in Education (Geog 29b)

Physical Oceanography (Geog. 210b)

Through the year Passing Weather (Geog. 221)

Thesis Seminar (Geog. 30)

Offerings for second year students

First Semester
Field Methods and Studies
(Geog. 392a)

Soils (33a) Plant Geography (24a)

Principles of Anthropogeogra-

phy (Geog. 37a) (Alt. yrs.) Caribbean America (Geog.

383a) (Alt. yrs.) Industrial Geography (Geog.

36a) (Alt. yrs.) Meteorology (220a)

Physics of the Air (Phys. 29) Cartography and Graphics

irtography and Graphic (290a) Second Semester

Eastern Hemisphere (Alt. yrs.):

Physiographic Regions (Geog. 319b)

Climate (329b) Plant Regions (349b)

Agricultural Regions (359b) Geographic Aspects of World Trade (Geog. 369b) (Alt.

yrs.) Geography of South America

Geography of South America (Geog. 384b)

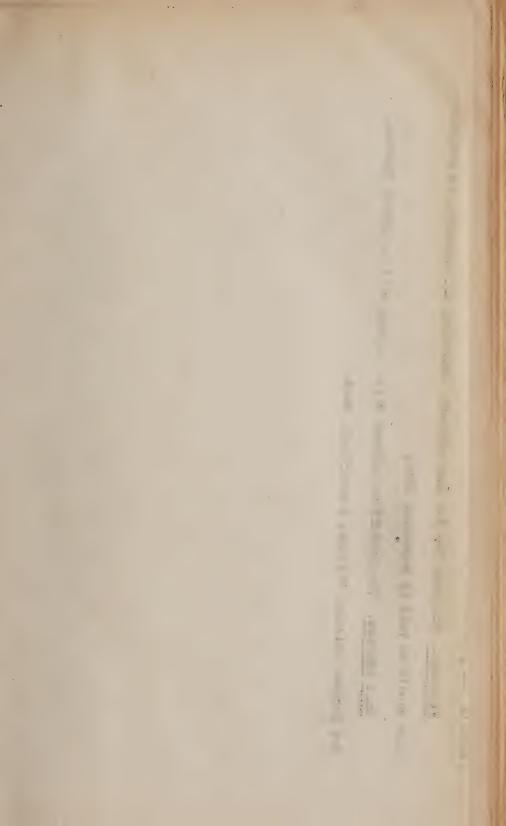
Through the year Passing Weather (Geog. 221) Thesis Seminar (Geog. 30)

Offerings for third year students

Field Methods and Studies (Geog. 392a) First semester Geography of the Mediterranean Region (Geog. 376a) First semester. (Alternate years)

Senior Seminar (Geog. 300) Through the year

Research in Special Fields



Clothing. Sport clothes such as would be used in golf or in tramping will be most appropriate. Comfortable shoes for tramping are essential. A sweater will probably prove to be welcome. A large piece of mosquito cloth may prove to be desirable.

Special Articles of Equipment. Every person should carry a strong pocket-knife, a cheap Ingersoll watch and a compass. A camera should prove useful.

Preliminary Conference. On September 26th and 27th members of the staff who participate in the field work will meet the members of the party for conference in the Workroom of the School of Geography at the University. Plans for the work will be presented and complete instructions given regarding the equipment and organization of groups and teams. Base maps have been mounted and will be available for the students upon their arrival. Colored crayons, a necessary part of the equipment, and other desirable articles of equipment, will be assembled in the Workroom at the time of the preliminary conferences.

Expenses. The camp fee for each student, including all expenses, is \$65.00. This should be paid by September 29th.

Mail Address. The postoffice address while in camp will be Potter Mansion, New England Colonial Village, Springfield, Mass.

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# CLAPK FIELD SCHOOL OF GEOGRAPHY

# September 29 to October 18, 1930, inclusive

take part in this work and three or four members of the staff will direct the party. direction of the members of its faculty. The Graduate students are all expected to field methods of the Graduate students of the Clark School of Geography under the School of Geography was established for the special training in Field

Massachusetts, and two large industrial districts. The region is rich in variety, the Connecticut Valley, and adjoins on the south the area surveyed by the members should prove a most interesting laboratory in which to spend the field season. The region to be surveyed includes part of the Berkshire Hills, a section through Location of Camp. The field selected for study during the fall of 1929 is It extends from Northampton to Connecticut Valley lowland, and a portion of the central highlands of the field school in the fall of 1929. of

the work. The field studies undertaken by the members of the School. might be entitled "An Economic Survey of the Connecticut Valley and Neighboring studies will be attempted, and special surveys of the industrial activities in Special Plans include mapping of the surface features and formations, native vegetation, the land utilization, and the population. lo lo that vicinity.

eating, and mapping will be done indoors. Some of the party may be accommodated in Each member of the party is supplied tent and cot, but bedding and Cooking, any other equipment that the individuals anticipate needing while in camp must be this supplied by them. A heavy piece of canvas 5 feet wide and 12 feet long in which University at the close of the field season, proves very useful as a floor cloth the personal equipment could be rolled up for shipment to camp, and back to the the home, but most of the party will camp in tents placed in the grounds Camp Arrangements. A country home will be engaged as headquarters. a tent, or for extra covering on country estate.

# COURSES IN ECONOMICS AND HISTORY OF INTEREST TO GEOGRAPHY STUDENTS

Economic History of Western Europe (Ec. 14a) (Alt. yrs.) Economic History of the United States (Ec. 14b) (Alt. yrs.) Statistics (Ec. 16) International Trade and International Finance (Ec. 27a) International Economic Policies (Ec. 31) (Alt. yrs.) Land Economics (Ec. 32) (Alt. yrs.) Historical Geography of the United States (Hist. 211a) Pacific and Far East (Hist. 22) British India (Hist. 25a) Latin America (Hist. 27)

# REQUIREMENTS FOR A.M. AND PH.D. DEGREES IN GEOGRAPHY

All candidates for degrees in Geography who are in residence will be expected to attend the Field Camp for three weeks each autumn, and during the year to take part in the Thesis or Senior Seminars. Formal Geography course work in mid-winter ends January 15, and in spring May 1, leaving students free to read and to coordinate their work prior to the examination periods.

Candidates for the Master's degree in Geography will be expected to pass written examinations and a general oral examination in the following fields: Physiography, Climatology, Soils, Plant Geography, Land Utilization and Agricultural Geography, Economic Geography, Anthropogeography, Regional Geography, and Geography in Education. A capable candidate who has recently graduated from college and who has done very well in collegiate courses in geography equivalent to four whole-year courses in the fundamentals outlined in the statement of geography courses for college students, on the page third before this one, should be able to prepare himself for these examinations and also have his Master's thesis ready by the end of his second year of graduate work.

Of those who have taken their college work some years ago or whose preparation has been irregular or apparently inadequate, the staff may require anticipatory examinations in certain subjects before or at the time of entrance. On the basis of credentials and such anticipatory examinations as may be required, the staff will advise a prospective candidate as to the minimum time he will probably need for the Master's degree.

Candidates for the Doctor's degree in Geography will be expected to pass more advanced written examinations, and a general oral examination including the broad foundation required for the Master's degree and such more advanced studies as the candidate may have pursued in the fields of his particular interests. In general, a year of work beyond the Master's degree should prepare a candidate for his general examination which is preliminary to his being accepted as a candidate for the Ph.D. degree and to his entering on concentrated work for his Ph.D. dissertation. This year of course work may well include, besides certain advanced courses in Geography, related advanced studies in History and International Relations, Economics, or Physics. student is given much freedom of choice. It is by February 1 during this year prior to the final one for the doctorate that the prospective candidate for the doctorate will be expected to show a reading knowledge of German and French, the two foreign languages most important for American geographers to know. A careful reading of the language requirements, on pp. 57-58, is recommended.

#### STUDENTS' FEES

All Geography students in residence must meet the Camp fee, the Workroom fee, and a Classroom Materials fee. The Camp fee covers board and lodging, transportation, maps, drafting supplies, and meteorological instruments from the time the party leaves Worcester to go to Camp till it returns at the end of the three weeks' period. The three days' trip to Cape Cod at the beginning of the Camp period is included. The fee is \$75.00, payable October 1 to the Camp treasurer.

The Workroom fee is in the nature of a laboratory fee, and it is assessed to help maintain the Geography Workroom and its equipment. Each graduate student in residence has a desk, shelf-space, and a section of an alcove in the Workroom. The files of maps, the card catalog, and the Libbey Library and Bibliography are at

<sup>&</sup>lt;sup>1</sup>While German and French will normally be the two languages required an exception might be made in a case where the dissertation for the doctorate demands a comprehensive knowledge of Spanish.

hand. A section of the Workroom is also given over to drafting tables with a large and varied equipment of drafting instruments, which are available for the use of students. There are also adding and computing machines. The Workroom fee is \$5.00 a semester, payable November 1 and March 1, to the departmental secretary.

The Classroom Materials fee is for mimeographed outlines, abstracts, summaries, and chapters of theses in the various courses and in the seminars. It also provides in part for the maintenance of the classroom wall-maps and other equipment. All students in residence receive the mimeographed material for all courses whether they attend or not. Furthermore, this fee covers the small expense of balloons and hydrogen and of some meteorological instruments in connection with the informal 15-minute daily weather meetings. The Classroom Materials fee is \$5 each semester, payable November 1 and March 1, to the departmental secretary.

Candidates for the degrees of Master of Arts and Doctor of Philosophy are here reminded of their candidacy and publication fees totalling \$20.00 for the A.M. and \$40.00 for the Ph.D., payable to the Bursar by Master's candidates by February 8 and by Doctor's candidates by November 1 of the academic year in which they expect to receive the degree. (See page 29).

#### ASSISTANCE BY SCHOLARS AND FELLOWS

Scholars and Fellows are expected to assist in the research or other work of the Department to an extent of about 3 hours a week, though never more than 6 in any week unless to concentrate the assistance. The opportunities for assistance will be posted at the beginning of the year, and this work will be assigned as nearly as possible according to the interests of the Scholars and Fellows and in such a way as to be of benefit to the Scholars and Fellows as well as to the Department.

#### COURSES IN GEOGRAPHY

#### 1. Primarily for Undergraduates

10. Fundamentals of Geography. A first course in college geography dealing with the geographic factors and geographic principles necessary to the understanding of the relationships ex-

isting between man and his natural environment. A world view of geography forming a good basis for all later courses.

Open to Freshmen.

Three hours, first semester. M. W. F., 8.

In 1930-31, to be M. W. F., 9. Professor Ridgley

100a. Conservation of Natural Resources. A study of the natural resources of the United States, including forest resources, minerals, soils, water resources, and other topics. A consideration of the original supply of natural resources, their uses to the present time, and their future possibilities. A comparison of the natural resources of the United States with those of other countries of the world.

Three hours, first semester. M. W. F., 8.

New course, to be offered 1930-31. Professor Ridgley

181b. Geography of North America. An introduction to the study of continental areas. A treatment of the continent as a whole followed by regional studies from various points of view. A desirable foundation for the more advanced and more specialized courses in North America and other continents.

Open to Freshmen. [Prerequisite Geog. 10 or equivalent].

Three hours, second semester. M. W. F., 9. Omitted in 1929-30, to be offered 1930-31.

PROFESSOR RIDGLEY

185b. Geography of Europe.

Open to Freshmen. [Prerequisite Geog. 10 or equivalent]. Three hours, second semester. M. W. F., 8.

To be omitted 1930-31. Professor Ridgley

Geology 12. General Geology. See page 118. Three hours, through the year. M. W. F., 8; F. 2.

Professor Little

12. Weather and Climate. This course aims (1) to give the student an understanding of weather processes, largely through watching the passing weather; (2) to train him in daily forecasting; (3) to show how various weather combinations make up the several types of climate; and (4) all through the year to bring out the intimate effects of the weather on all sorts of human affairs. Elementary Meteorolgy is taken up systematically during the first semester, and elementary Climatology the second.

Three hours, through the year. Tu. Th. S., 8; Tu. 11 or 2.

Daily ceiling balloon flights.

Omitted in 1929-30, to be offered 1930-31. Professor Brooks

Geology 121a. Mineralogy. See page 118.

Three hours, first semester. Professor Lettle

**Geology 122b. Economic Geology.** See page 118.

Three hours, second semester. Professor Little To be omitted 1930-31.

#### 2. For Graduate Students and Advanced Undergraduates

21a (formerly 31a). Interpretation of Physiographic Features. A lecture, field and laboratory course designed to acquaint the student with the principles of physiography in such a way that he can apply them in the field or in map interpretation.

Prerequisite: Geology 12, or equivalent in Physiography.

Two hours, first semester. M., 9; Tu., 2-3:30.

Professor Atwood and Dr. Cressey

In 1930-31, to be *two hours*, first semester. M. W., 9; Tu., 2-3:30.

210b. Physical Oceanography.

Prerequisite: Geology 12.

One hour, second semester, to be arranged. Professor Brooks New course, to be offered 1930-31.

**22** (formerly 32a). Climatology. A study of principles, brought home by original observations and by compilation, graphing and mapping climatic data and interpreting the results.

Prerequisite: Geography 12 or equivalent.

Two hours, T., W., 9; Th., 9, 10, (Jan., 1930); Tu., 10; Th. 10, second semester. Professor Brooks

In 1930-31, to be two hours, first semester. M. W., 11; W., 2-3:30.

**220a. Meteorology.** A systematic study of weather science. Prerequisites: Math. 1, Physics 11, and Geog. 12, or equivalents.

Two hours, first semester. Tu. Th., 8, and one other hour, to be arranged.

Professor Brooks

To be omitted 1930-31.

✓ 221. The Passing Weather. Daily outdoor meeting, including an observation of the weather; a ceiling balloon flight; discussion and interpretation of the weather for the past 24 hours from local observations, weather maps and reports; and weather forecast for the following night and next day. Members of this class will be responsible for the operation of the University meteorological observatory.

Prerequisite: Geog. 12 or equivalent.

One hour, through the year. Daily 12:45-1, and occasional other periods.

Professor Brooks

Physics 29. Selected Studies in Physics of the Air. An op-

portunity for a more profound study of certain phases of meteorology, based on W. J. Humphreys' "Physics of the Air."

Open only to those in the Meteorology Class (Geog. 220a).

One hour, through the year. To be arranged.

Omitted 1929-30. Professor Goddard and Professor Brooks

Botany 24a. General Botany treated from a Taxonomic and Ecologic Standpoint. (See page 96).

Three hours, first semester. Assistant Professor Potter

34 w 1929-39 24a (formerly 34a). Plant Geography. The responses of plants and plant groups to the factors of physical environment and their interrelationships. The physical bases of plant distribution.

Prerequisites: Botany 24a or equivalent, Geology 12 or equiv-

alent in physiography, and Geography 12 or equivalent.

One hour, through the year, Tu., 11. PROFESSOR EKBLAW

To be omitted 1930-31.

25a (formerly 35a). Agricultural Geography and Land Utilization. A course in the relation of physical environment to the character of land utilization, and to the various types of land use; the physical and economic factors that enter into the delimitation of agricultural regions; the influences of relief, climate, soil, and other physical factors upon the distribution of crops; the economic interdependence of the various regions of the United States.

Prerequisite: Geography 10, or equivalent.

Two hours, first semester. M. W., 2. Professor Ekblaw
To be omitted 1930-31.

26a. Economic Geography. A study of the relation of physical and economic conditions to the production, and trade in selected important agricultural, forest, mineral, and manufactured products of the world; emphasis will be placed on the regional aspect of the commodities, and on the combinations in producing complex agricultural and manufacturing regions. Prerequisites: Geog. 10a, 181b, 184b, 290a, and Geol. 12.

Three hours, First semester. M. T. W., 8.

Professor Jones

New course, to be offered in 1930-31.

290a. Cartography and Graphics. Principles and practice of map-making, constructing of diagrams, and relief drawings.

Open only to students majoring in Geography.

One hour, first semester.

PROFESSOR ATWOOD AND MR. BURNHAM

29b. Geography in Education. A survey of geography in the present-day American school system, including elementary

school, high-school, teacher-training institutions, colleges and universities; examination and comparison of present courses of study in each group of schools; problems of high school and normal school emphasized; designed to meet the needs of those expecting to teach Geography.

Prerequisites: Geography 10a and other geography courses

totaling at least 18 hours.

Three hours, second semester. T. T. S., 8.

In 1930-31 to be M. T. W., 8. Professor Ridgley

#### EXCLUSIVELY FOR GRADUATE STUDENTS

Thesis Seminar in Geography. Candidates for Master's and Doctor's degrees are directed in selection of themes for theses. Outlines of theses are here presented for criticism, followed by presentations of successive chapters as these are prepared. Members of the staff lead the discussion, which is participated in by all members of the Seminar.

Two hours, through the year. Tu., 4-6.

STAFF

300. Senior Seminar in Geography. Meetings for discus- Combined with sion of contemporary advances in geography. One hour, through the year. Alternating with Thesis Seminar.

Tu., 4-6. STAFF

310. Research in Regional Physiography. A critical review of the source material on Physiography and of the leading contributions made by those who have developed this phase of geo-Professor Atwood graphic investigation.

311b. Physiographic Regions of North America.

Prerequisite: Geography 31a or equivalent.

Two hours, second semester. M. W., 9; Tu. 2-3:30.

Omitted 1929-30, to be offered 1930-31.

Professor Atwood and Assistant

319b. Physiographic Regions of the Eastern Hemisphere. Prerequisite: Geography 21a or equivalent.

Two hours, second semester, M. W., 9.

To be omitted 1930-31.

Professor Atwood

320. Research in Climatology or Climates of the World. Special studies in the climates of particular regions or in compara-Professor Brooks tive climatology.

321b. Climatology of North America. Factors controlling the distribution of climates in North America. The climatic regions and explanations of their characteristics. Original studies.

Prerequisite: Geog. 22a or equivalent.

Two hours, second semester. M. T. W. T., 10.

Omitted 1929-30, to be offered 1930-31. Professor Brooks

30 241d sem.

329b. Climate of the Eastern Hemisphere.

Prerequisite: Geography 22a or equivalent. Two hours, second semester. M. W., 10.

To be omitted in 1930-31. Professor Brooks

33a. Soil Geography. Geographic types of soils, their mode of formation and distribution. Soil regions in relation to relief, climate, vegetation, and agriculture.

One hour, daily, 1 p. m., Nov. 25-Dec. 21, 1929. Field trips.

Dr. Marbut

330. Research in soils.

Dr. Marbut

340. Research in Plant Geography. Professor Ekblaw

341b. Plant Regions of North America. An intensive study of plant distribution in North America.

Prerequisite: Geography 24a.

Two hours, second semester, M. W., 11.

Omitted 1929-30, to be offered 1930-31. Professor Ekblaw

349b. Plant Regions of the Eastern Hemisphere. The distribution of plants, plant types and plant groups in response to physical factors, and its effect upon human activities.

Prerequisite: Geography 24a.

Two hours, second semester. M. W., 11.

To be omitted in 1930-31. Professor Ekblaw

V 350. Research in Agricultural Geography or Land Utilization.

PROFESSOR EKBLAW

351b. Agricultural Regions of North America.

Prerequisites: Geography 21a, 25a, and approved courses in Economics.

Two hours, second semester. M. W., 2. Professor Ekblaw Omitted, 1929-30, to be offered 1930-31.

√ 359b. Agricultural Regions of the Eastern Hemisphere.

Prerequisites: Geography 21a, 25a, and approved courses in Economics.

Two hours, second semester. M. W., 2. Professor Ekbbaw To be omitted 1930-31.

36b. Industrial Geography. A research and lecture course on the leading manufacturing industries of the world; an analysis of the essentials of manufacturing; the sources of power; the iron and steel industries, including the alloy minerals; the automobile industry; agricultural machinery; electrical machinery; textile machinery; the textile industries; and other selected industries. In the study of these industries emphasis will be placed on the location, raw materials, power, labor, capital, type

of product, and other conditions influencing the evolution of the industry. The course will conclude with an analysis of the chief manufacturing regions of the world.

Prerequisite: Geography 26b and 21a or 22a.

Two hours, first semester. M. W., 2. Professor Jones To be omitted 1930-31.

√ 360. Research in Industrial or Commercial Geography.

Professor Iones

362b. Geographic Aspects of United States Foreign Trade. Two hours, second semester. T., T., 11.

New course, to be offered in 1930-31. Professor Jones

bases of modern world trade; major commercial divisions and trade regions of the world; the flow of commodities by commercial divisions and trade regions; an analysis of the major movements in leading world commercial products; the chief world trade routes; an analysis in some detail of the trends of trade in selected regions.

Two hours, second semester. M. W., 8.

To be omitted 1930-31. Professor Jones

37a. General Principles of Anthropogeography. This course considers the operation of geographic factors in the economic, social and political development of peoples; the influences of location, area, relief, coastline, drainage systems, climate, and other geographic conditions both separately and in their mutual interplay. Ellen C. Semple's *Influences of Geographical Environment* will be used as a text.

Prerequisites: 9 hours of Geography or History and permission of the instructor.

Three hours, first semester. M. T. W., 10.

To be omitted in 1930-31. Professor Semple

History 211a. Historical Geography of the United States. (See page 128).

Three hours, first semester. M. W. F., 11.

Omitted 1929-30. Professor Hedges

370a. Research in Anthropogeography.

PROFESSOR SEMPLE

375a. Geography of Europe. This course includes a study of the climate, relief, coastline and marginal seas of the continent as a whole, to be followed by a detailed consideration of the ethnic, economic and political geography of the Eastern European states. These include Finland, Poland, Roumania and the Soviet Republics.

Prerequisite: 6 hours of European history.

Two hours, first semester. M. W., 4. Professor Semple

To be omitted in 1930-31.

376a. The Geography of the Mediterranean Region, especially in relation to Ancient History. Lectures and assigned readings. A geographical interpretation of ancient history in Mediterranean lands, embracing a study of the various geographic factors operative in the countries bordering this enclosed sea under the peculiar influences of the Mediterranean climate, at a time when the Mediterranean constituted most of the known world.

Prerequisites: 9 hours of Geography or History, and permis-

sion of instructor.

Three hours, first semester. M. T. W., 10.

Omitted 1929-30. Professor Semple

380. Research in Regional Geography.

One or more members of the STAFF

383a. Caribbean America. A lecture and research course on the geography of Mexico, the Central American states, and the islands bordering the Caribbean Sea; the historical background of the republics and the islands of the Caribbean; the major geographic regions of the different countries; the economic posmons of the republics and islands; economic and other problems facing the various regions; the expansion of the United States into the Caribbean; the commercial importance of the various republics and islands as a market for manufactured wares and as a source of foodstuffs and raw materials.

Three hours, first semester. M. T. W., 8.

To be omitted 1930-31.

PROFESSOR JONES

384b. South America. A geographic survey of the continent of South America; the major physiographic regions and the chief climatic types; the distribution of vegetation; transportation; the population; the major problems facing the South American republics; the major geographic regions of the several countries; South America as a source of raw materials and foodstuffs and as a market for manufactured wares.

Three hours, second semester. T. Th. S., 9. Professor Jones

History 22. The Pacific and the Far East. See page 126. Three hours, through the year. M. W. F., 10.

Professor Blakeslee

392a. Field Methods and Studies. An intensive field study of a portion of the Connecticut Valley in Massachusetts. Required of all candidates for graduate degrees in geography who have not previously had a field course or field experience equivalent to this.

Second and third year graduate students in residence are expected to take this course every year, for the area studied is a new one each autumn and there are numerous special problems of interest to the experienced student. The first three days of the camp period are used for a reconnaissance field trip to the end of Cape Cod. The week after the camp period is devoted to working on the field data collected.

An inclusive camp fee of \$75.00 is payable to the treasurer of

the camp, October 1. (See page 70).

Four hours, Sept. 30-Oct. 19, 1929; Sept. 29-Oct. 18, 1930.

STAFF

39. Field Geography (Individual Work). For students in the field collecting information for their theses.

#### HOME STUDY COURSES IN GEOGRAPHY

There are many teaching Geography in the schools of this country who have not had an opportunity to receive adequate special instruction in this field of work. During the last few years there have been notable developments in the methods used in the teaching of Geography and notable changes in the political geography of the world. The human point of view should now dominate in all of the instructional work done with children; the subject should broaden the knowledge and world sympathies of the American people. It is necessary for all teachers of Geography who wish to be abreast of the times to carry on in some way their own study and training.

The University wishes to extend its services as widely as possible for the betterment of the teaching of Geography, and therefore, in addition to the regular resident courses and the Summer School work, is offering a series of Home Study Courses. Pro-

fessor Ridgley is in immediate charge of this work.

#### COURSES

1. The Teaching of Geography in the Elementary School.

1a. The Teaching of Geography based on the New York State Syllabus. Grades 3, 4, 5, and 6.

The Teaching of Home Geography and World as a Whole.

2a. The Teaching of Third Grade Geography based on the New York State Syllabus.

3. The Teaching of North America.

- 4. The Teaching of South America, Europe and Asia.
- 5. The Teaching of Geographic Factors and the United States in its World Relations.
- 6. Industrial and Commercial Geography.
- 7. Geography of North America.8. Geography of South America.

9. Geography of Europe.

9a. Home Study Course for European Travel.

10. Geography of the Eastern Continents.

11. The Physical Geography of the Lands.

- 12. Weather.
- 13. Elements of Climatology.14. Climates of the World.
- 15. Climatology of the United States.
- 16. Mathematical Geography.17. Graphics and Cartography.18. Special Studies in Geography.

#### CREDITS AND TUITION

Each course consists of 36 written lessons and is intended to be the equivalent of a college course taken in residence, meeting three times per week for a semester of 18 weeks. In general, the preparation and the writing of each lesson is expected to require about four or five hours.

The tuition for each course is eighteen (\$18.00) dollars, payable at the time of enrollment. A course may be begun at any time, but it should be completed within 12 months.

Further information about these courses will be sent upon the receipt of a request. Address all communications to Clark University, Home Study Department, Worcester, Mass.

#### THE SUMMER SCHOOL

The session of 1930 will begin June 30 and end August 8. Instruction will be offered in Geography, Geology, History and Economics.

Qualified students are admitted upon presentation of proper credentials. Both undergraduate and graduate work is offered. Work done in the Summer School may be counted, subject to the regulations of the Collegiate and the Graduate Boards and of the Faculty of the University, toward fulfillment of the requirements for the degrees of Bachelor of Arts, Bachelor of Education and graduate degrees. Unless otherwise announced, each course is intended to be the equivalent of a course meeting two hours per week throughout a semester and is credited, when accepted toward the fulfillment of the requirements for a Bachelor's degree in this University, for two semester hours.

The tuition charges are twenty dollars for a single course meeting five times a week and thirty-five dollars for two or more courses. Rooms in the vicinity of the University cost from three dollars a week up, and the University Dining Hall provides board at a reasonable rate.

The Summer School Bulletin, published about February 1, contains detailed information about the coming session with descriptions of the various courses, and may be had upon application to the Director of the Summer School, Clark University, Worcester, Mass.

The names of the students who attended the Summer School in 1929 will be found in the Register, beginning on page 152 of this catalogue.

#### FIELD TRIPS IN GEOGRAPHY AND HISTORY

The field trips of 1930 are a continuation of a plan inaugurated by Clark University Summer School in 1924, for the study of geography and history out-of-doors.

\*SS204. Transcontinental Field Trip. The members of the Transcontinental Field Trip will assemble at Clark University on Monday, June 30, for preliminary conferences. The party will leave on Wednesday, July 2, for a journey of more than 8500

miles during a period of 53 days, closing the trip at New York City.

The route passes through Niagara Falls, Chicago, Yellowstone Park, Salt Lake City, San Francisco, Yosemite Park, Los Angeles, Grand Canyon Park, Washington, D. C., Baltimore, to New York City.

This trip will be in charge of Dr. Langdon White, Professor of Geography, Randolph-Macon Woman's College, Lynchburg, Virginia. Mrs. White will accompany the party as chaperone.

The cost of the trip is \$600, including tuition, transportation by motor coach from Worcester back to New York City, hotel and meals while on the trip.

#### FIELD TRIPS FOLLOWING THE SUMMER SCHOOL

New York-Philadelphia-Washington-Richmond Field Trip. Friday, August 8, 2 P. M. to Saturday, August 23, 16 days. The route: Worcester, Hartford, New Haven, Tarrytown, New York (3 days), Princeton, Trenton, Philadelphia (3 days), Baltimore, Washington (3 days), Fredericksburg, Richmond, Jamestown, Yorktown, Luray Caverns, Harper's Ferry, Frederick, Gettysburg, Lancaster, Ephrata, Bethlehem, Delaware Water Gap, West Point, Storm King Highway, Albany, Williamstown, Mohawk Trail, Worcester. The party will leave Clark University at 2 P. M., Friday, August 8, and return to Worcester, Saturday August 23.

This trip will be in charge of Professor Edgar C. Bye, Professor of Social Studies, State Teachers College, Shippensburg, Pennsylvania.

The cost of the trip is \$15 for tuition and \$70 for transportation. Each person will pay for his own hotel and meals. Hotel reservations will be made in advance. Cost of hotel and meals should be well under \$5 per day.

New England Field Trip for New York State Teachers. Saturday, August 9, to Friday, August 22, 14 days.

The itinerary includes Oswego and Troy, in New York, Williamstown, Mass., Rutland, Vt., Hanover and Mount Washington, in New Hampshire; Auburn, Bangor, and Portland in Maine; Boston, Gloucester, Salem, Marblehead, Lexington, Concord, Wayside Inn, Worcester, Plymouth, Provincetown, New Bedford, and

Fall River in Massachusetts; Newport and Providence in Rhode Island, the Connecticut Valley with its succession of important cities in Connecticut and Massachusetts.

This trip is in charge of Mrs. Isabelle K. Hart, Instructor in Geography, State Normal School, Oswego, New York. The party will leave the Oswego Normal School at 8 A. M., Saturday, August 9, and return to Oswego, Friday, August 22.

The cost of this trip is \$15 for tuition and \$60 for transportation.

Each person will pay for his own hotel and meals. Hotel reservations will be made in advance. Cost of hotel and meals will probably not exceed \$60.

Canadian Field Trip for Connecticut Teachers. Saturday, August 9, to Friday, August 29, 21 days.

The itinerary includes New Britain, Conn., Providence, R. I., Plymouth, Boston, and Salem in Massachusetts; Portland, Bangor, and Calais in Maine; St. John, Halifax, and Quebec in Canada; White Mountains and Merrimac Valley in New Hampshire; Lexington, Concord, and Worcester in Massachusetts.

This trip is in charge of Professor George F. Howe, Head of the Geography Department, State Normal School, New Britain, Connecticut. The party will leave the New Britain Normal School at 8 A. M. Saturday, August 9, and return to New Britain, Friday, August 29.

The cost of this trip is \$20 for tuition and \$100 for transportation.

Each person will pay for his own hotel and meals. Hotel reservations will be made in advance. Cost of hotel and meals will probably not exceed \$80.

Preliminary Announcement of Caribbean Field Trip—Summer, 1931. During eight weeks of the summer of 1931 Dr. and Mrs. Clarence F. Jones will conduct a field trip in the Caribbean. Areas scheduled for study include the Lesser Antilles, the Caracas-Valencia region of Venezuela, Curacao, the Sierra Nevada Banana and Coffee Regions of Northern Colombia, and the Panama Canal Zone. Early correspondence is invited from those who are interested in such a trip as reservations for transportation must be made well in advance of the date of sailing. Dr. Jones has done field

work in all the areas during the summer months. Address inquiries to Clark University Summer School or to Dr. Clarence F. Jones.

#### OFFICERS OF INSTRUCTION AND ADMINISTRATION

- Wallace Walter Atwood, Ph.D. Geography
  President of Clark University and Director of the Graduate School of Geography.
- Douglas Clay Ridgley, Ph.D. Geography
  Director of the Summer School and Professor of Geography in Education, Clark University.
- CHARLES FRANKLIN BROOKS, Ph.D. Meterology and Climatology Professor of Meteorology and Climatology, Clark University.
- CLARENCE FIELDEN JONES, Ph.D. Geography
  Professor of Economic Geography, Clark University.
- Julia Mary Shipman, Ph.D. Geography
  Instructor in Geography, University of Nebraska.
- CHARLES LANGDON WHITE, Ph.D. Geography
  Head of Department of Geography, Randolph-Macon
  Woman's College.
- CLARENCE EUGENE KOEPP, Ph.D. Meterology and Climatology Professor of Geography, State Teachers' College, Springfield, Missouri.
- GUY H. BURNHAM, A.M. Cartography
  Cartographer, Clark University.
- Homer Payson Little, Ph.D. Geology
  Dean of the College and Professor of Geology, Clark
  University.
- George Frederick Howe, Ph.D. History
  Instructor in History, University of Cincinnati.
- EDGAR C. Bye, A. M.

  Professor of Social Studies, State Teachers' College,
  Shippensburg, Pennsylvania.
- Samuel J. Brandenburg, Ph.D. Economics
  Professor of Economics and Sociology, Clark University.

EUGENE C. BELKNAP Source Material in Economic Geography Curator, Department of Chemistry, Clark University.

CAREY EYSTER MELVILLE Registrar FLORENCE CHANDLER Bursar

#### LIST OF COURSES

The starred courses (\*) are those definitely intended for students who are candidates for the degree of Master of Arts in Clark University. Other qualified students are admitted to these courses.

#### **GEOGRAPHY**

SS11. Field Work in Geography.	Mr. Jones	
SS12. Weather.	Mr. Koeppe	
SS14. Economic Geography.	Miss Shipman	
SS122. Climate.	Mr. Koeppe	
SS180. Visual Aids in Geography and History.		
Mr. Ridgley	AND MR. BELKNAP	
SS181. The Teaching of Geography.	Mr. Ridgley	
SS190. Mathematical Geography.	Mr. Burnham	
SS191. Graphics and Cartography.	Mr. Burnham	
*SS28. Geography in Education for Spe	cial Teachers.	
	Mr. RIDGLEY	
*SS283. Caribbean America.	Mr. Jones	
*SS285. Geography of Europe.	Miss Shipman	
*SS30. Seminar in Geography. The	E GEOGRAPHY STAFF	
*SS32. Research in Climatology. Mr. Br.	OOKS OR MR. KOEPPE	
*SS34. Research in Economic Geograph	y. Mr. Jones	
*SS300. Research in Regional Geography	y. Mr. Jones	
GEOLOGY		
SS1. Physical Geology.	Mr. LITTLE	

### HISTORY

SS11. Observational History of Massachusetts.	Mr. Bye
SS16. The Teaching of History.	Mr. Bye
SS152. Introduction to Political Science.	Mr. Bye
*SS23. American Social History, 1776-1900.	Mr. Howe
*SS242. History of the West since 1812.	Mr. Howe

#### **ECONOMICS**

SS2. Problems of Economics. Mr. Brandenburg
\*SS5. Economic History of Western Europe.

Mr. Brandenburg

# THE BACHELOR OF EDUCATION DEGREE

The degree of Bachelor of Education is offered primarily to teachers, both men and women. A two-year Normal School course is presupposed and a year of teaching experience is a pre-requisite for the degree.

Candidates for this degree may earn the necessary credit by attendance at the Summer School or by taking such courses as may be open to them at other times.

Women who are candidates for this degree will usually not find it possible to secure a full program of courses during the regular academic year.

Courses are offered during the regular academic year on Saturday morning and on certain afternoons for the convenience of candidates for this degree who are teaching in or near Worcester. By taking advantage of these courses it is possible for a teacher to complete in three or four years the equivalent of a year of study in residence.

- 1. Admission Requirements. The completion of a standard two-year course in a Massachusetts State Normal School, or the reasonable equivalent of such a course.
  - 2. Requirements for the Degree:
    - a. At least one year's teaching experience.
    - b. At least 30 semester hours of credit earned in residence at Clark University.
    - c. 120 semester hours of college credit, including advanced standing based upon the admission requirements.
    - d. Requirements in particular subjects:
      - (1) Six semester hours in Psychology or Education taken after the completion of the two-year Normal School course or its equivalent.
      - (2) Six semester hours of Laboratory Science taken after the completion of the two-year Normal School course or its equivalent.

- (3) Ten semester hours of English, which may be taken in whole or in part in the Normal School course.
- (4) Ten semester hours of foreign language, which may be taken in whole or in part in the Normal School course.
- (5) Twelve semester hours of Economics, Geography, Government, History, or Sociology, at least six of which must be taken after the completion of the twoyear Normal School course or its equivalent.
- 3. STANDARD OF SCHOLARSHIP: The same standard of scholarship will be required of candidates for this degree as for the degree of Bachelor of Arts.

#### 4. ADVANCED STANDING:

- a. Credit of 54 semester hours will normally be given for the standard two-year course in a Massachusetts State Normal School. This may be reduced in special cases.
- b. Credit will be allowed for work done at other Universities, Colleges, or Normal Schools, subject to reasonable regulations.
  - c. Not more than 30 semester hours credit may be allowed for home study or extension courses, the acceptance of any work of this type to be subject to the approval of the registrar.
- 5. Lapse of Candidacy. By vote of the committee on the degree of Bachelor of Education, candidacy terminates automatically whenever for a period of two years or more a candidate has failed to complete any courses in Clark University yielding credit toward the degree. A candidacy terminated under this rule may be renewed by action of the committee, and such renewal may involve a revision of allowances previously made both in respect to total credit, and requirements in particular subjects.

Inquiries regarding the degree of Bachelor of Education should be addressed to the Registrar of the University.

#### BIOLOGY

1. Botany.

MR. POTTER

Extension se

# CLARK UNIVERSITY BULLETIN

No. 68

April, 1929

Extension Courses of College Grade for Teachers and Others

Open to Men and Women
Courses meet once a week
Late Afternoons
Saturday Mornings

Worcester, Massachusetts
First Semester
1929-30

#### PROGRAM OF COURSES

#### MONDAY

4.206.00	THE TEACHING OF GEOGRAPHY IN
	GRADES, 3, 4, 5 AND 6. Mr. Ridgley
	MATHEMATICS. Mr. Williams
5.005.50	PSYCHOLOGY (INDIVIDUAL ADJUST-
	MENTS). Mr. Willoughby
	TUESDAY
4.206.00	BIOLOGY OR PHYSIOLOGY. Mr.
	Richards
	ELEMENTARY FRENCH. Mr. Church-
	Methods of Teaching French. Mr.
	Churchman
	GERMAN. Mr. Bosshard
	WEDNESDAY
4.20-6.00	GEOGRAPHIC INFLUENCES IN AMER-
	ICAN HISTORY. Mr. Jones
5.005.50	FRENCH SEMINAR.
	ECONOMIC AND SOCIAL PROBLEMS.
	Mr. Brandenburg
	THURSDAY
4.20-5.00	BOTANY. Mr. Potter
	FRENCH CONVERSATION AND EAR-
	TRAINING. Mr. Atwood
	FRIDAY
Open Date	Available for courses found to con- flict

SATURDAY
11.00—12.40 BIOGRAPHY AND LETTERS. Mr. Dodd

#### Aim and Character of the Extension Work

Clark University will again offer during the academic year 1929-30 a series of Extension Courses. Some of these courses, both in respect to content and time of meeting, are particularly intended for teachers in the schools of Worcester and the surrounding region. Many of them, however, have no such limited objective, but should appeal to the public on the grounds of utility or general culture.

In content those courses which primarily have the needs of the teacher in mind will aim to provide up-to-date, exact, and scholarly surveys of subject matter. An effort will also be made to touch upon aims and methods, and to provide a background for the solution of the practical problems of the classroom.

All of these Extension Courses are open to mature persons who are suitably prepared. Each applicant for an official record will be expected to satisfy the instructor in charge as to his or her preparation for the course. Those who do not desire an official record of work done may be admitted as "auditors." The courses are strictly of college grade and may be used for credit toward the degree of Bachelor of Education in this University. Candidates for the degree of Bachelor of Arts may include these courses in their programs only when official authorization in advance is secured from the College Board. In similar circumstances candidates for the Master of Arts degree should secure the approval of their major department in each case.

This Bulletin deals primarily with courses to be given in the first semester, though listing a few second semester courses for which the data are now available. A Bulletin of second semester courses will be issued in January, 1930.

#### Date of Opening

Classes will meet for organization and the beginning of work during the week Sept. 30—Oct. 5, 1929, on the day specified after the description of each course.

Attendance at the first meeting and promptness at all classes are highly desirable. Early registration, even before the opening date, will be of assistance in determining which courses shall be given; those courses for which a good demand is evident early will naturally receive the preference.

#### Registration and Charges

Registration for these courses may be attended to at the first class meeting or earlier, at the General Office. Tuition charges are \$8.00 for a course meeting one hour a week for one semester, and \$15.00 for a course meeting two hours a week for one semester.

The matriculation fee of \$5.00 has been discontinued in the case of students taking courses as "auditors." (See page 3). Auditors will be given a statement of registration only. Matriculated students will be given an official statement which may be presented at Clark University or elsewhere for college credit subject to the standing regulations of the institution to which the certificates may be presented.

All fees are payable before the third meeting of the respective courses, unless arrangements for postponement are made.

Standards, Credit, Terms of Admission

Only courses of college grade will be given, but students without the conventional preparatory training may be admitted to any course at the discretion of the instructor.

Courses will meet for periods of 50 or 100 minutes. The official hours for afternoon courses running for 100 minutes will be from 4:20 to 6:00; one-hour afternoon courses will usually run from 5.00 to 5.50; hours for Saturday courses will be decided by the individual instructors.

Credit. When presented for undergraduate credit in this University, one semester hour will normally be granted for a two-hour course (100 minutes) meeting 8 times, or a one-hour course (50 minutes) meeting 16 times, and two semester hours for a two-hour course (100 minutes) meeting 16 times.

Regular outside preparation or collateral reading is expected in every course, except in the case of auditors. This outside work will be similar in amount to the preparation expected in regular undergraduate courses, namely an average of two hours per week for each semester hour of credit in the course. Those who prefer to attend without doing any outside work are welcome, but will be classed as auditors (see page 3).

For further information address:-

C. E. MELVILLE, Registrar.

#### LIST OF COURSES

NOTE: Any course for which there are fewer than 20 registrations at the time of the second scheduled meeting may be discontinued at the discretion of the instructor in charge.

#### Biology

1. BOTANY-A study of the major groups of the Plant Kingdom. The first semester will be devoted to a consideration of the structure and function of plants, their classification and their relation to their environment. The first part of the second semester will be spent in a study of type specimens of the slime moulds, bacteria, blue green algae, the true algae, fungi, mosses, ferns and club mosses. The last half of the semester will be devoted to an introduction to Systematic Botany. Methods of collecting, pressing and mounting will be treated, together with practice in the use of keys for the purpose of identification and classification of plants. (This course will continue through the year, but either semester may be taken separately).

Two semester hours each semester
Thursdays, 4.20-6.00 DAVID POTTER

2. ELEMENTARY HUMAN PHYSIOLOGY—A course for teachers, parents and others who wish an introduction to the functions of the normal human body. The first semester will be devoted to the study of the sense organs, nervous system, muscular system and behavior. The second semester will include the study of respiration, the blood, the digestion, absortion and utilization of food, the

excretion of wastes and the maintenance of the body. Practical application of the information will be made to efficient use of the human body. Lectures, demonstrations, and class discussion.

Two semester hours each semester

Tuesdays 4.20-600

O. W. RICHARDS

3. ELEMENTARY ANIMAL BIOLOGY—This course is intended for teachers, parents and others who wish to obtain a comprehensive view of the principles and problems of the biology of animals. The first semester will include a brief survey of the animal kingdom and the second semester will be devoted to the origin and life of animals with reference to their surroundings. Lectures, demonstrations and occasional field trips.

Two semester hours each semester

Tuesdays 4.20-6.00

O. W. RICHARDS

NOTE: Either course 2 or course 3, but not both, will be given in accordance with the demand.

These courses will continue through the year, but either semester may be taken separately.

#### **Economics**

ECONOMIC AND SOCIAL PROBLEMS—This course is designed particularly for teachers of any of the Social Sciences in the intermediate or secondary schools. It considers the economic issues involved in important contemporary problems, such as: mechanization of industry; specialization in production; division of labor; the utilization of power; natural resources and raw materials; regional, national and international economic interdependence, rivalries and conflicts; the place of the United States in world economy; problems of

strictly national concern such as "bloc" interests, immigration, tariff, monoplies, diffusion and concentration of wealth.

Two semester hours Wednesday 4.20-6.00

S. J. BRANDENBURG

#### English

BIOGRAPHY AND LETTERS—The course is designed to afford the student acquaintance with some of the famous old biographies, autobiographies and collections of letters, and with the best of the new. The student may make his own selections from a representative list prepared especially for this course, and the books selected may be drawn from the Library and read at home. Two semester hours

Saturdays 11.00-12.40

L. H. Dodd

#### French

1. ELEMENTARY FRENCH—A general introduction to the language, with reading ability as its ultimate goal, but utilizing oral work based on phonetics, and making a careful study of the fundamentals of the grammar, with application to spoken and written French. The first meetings will be devoted to pronunciation on a phonetic basis (P. H. Churchman, The Phonetic Approach to French). The other texts used are Fraser and Squair's Elementary French Grammar, the Smith-Greenleaf French Reader, and Greenberg's French Silent Reader.

Two semester hours Tuesdays 4.20-6.00

P. H. CHURCHMAN

2. LABORATORY COURSE IN METHODS FOR TEACH-ERS—Members of this course will attend the Elementary Course as observers, reading outside special assignments on phonetics, grammar and syntax, methods, and other suitable topics. Periodic tests and brief informal discussions of methods and content will take place at convenient times. Reading assignments will be in Barrows and Cordts' Teacher's Book of Phonetics, H. E. Palmers' Oral Method of Teaching Languages or Principles of Language Study, Fraser and Squair's Complete French Grammar, R. T. Holbrook's Living French, E. G. Armstrong's Syntax of the French Verb, Churchman and Hacker's First Phonetic French Course, and other suitable books and articles.

Two semester hours

Tuesdays 4.20-6.00

P. H. CHURCHMAN

3. French Conversation and Ear-Training—Open to anyone having a knowledge of the fundamentals of French grammar. A practical course, aiming to develop facility in the use of every-day French and the comprehension of spoken French. The text-book will be Patton's Causeries en France (Heath). This will be supplemented by lectures in French, some of which will be illustrated, covering the various provinces of France, French customs, and French art.

Two semester hours

Thursdays 4.20-6.00

LELAND L. ATWOOD

4. SEMINAR—A study of contemporary developments in French literature and in education. Reports by members of the group on current French books, reviews, and new developments in the field of modern language teaching. Conducted mainly in French, but English may be used at any time. An informal gathering without fees or credit, that is no longer listed as strictly an extension course.

Open to any interested persons.

Wednesdays, 5.00-5.50

No Gredit

# Geography

1. The Teaching of Geography in Grades 3, 4, 5, and 6—This course is planned for the development of the geography work as outlined in the new Worcester Course of Study in Geography. The earlier lessons will deal with the problems of geography teaching common to all grades and with the details of the syllabus of the various grades in relation to each other. Members of the class will do extensive reading for the development of the work of the grade or grades in which they are teaching. Frequent reports will be made of actual classroom procedure and results. The teaching problems of grades 3, 4, 5, and 6 will focus the work of the course, which will continue for one or two semesters according to the need.

Two semester hours Mondays 4.20-6.00

Douglas C. Ridgley

2. Geographic Influences in American History—A lecture course tracing the influence of geographic conditions on the chief currents in American History. The geographical and historical combination of conditions that led to the discovery and exploration of America; the methods of settlement of the Spaniards, French and English in the extension of their American Empires; contrasts between the geography of New England and the South English sea-board colonies; the Western migration and the expansion of the

United States from the Atlantic to the Pacific; the United States as a continental power, politically, industrially, commercially; the expansion of the United States into the Caribbean and to the Pacific; the United States as a world power. Though primarily a lecture course, reference will be made to source materials and to useful story materials sutiable for use by teachers wishing to correlate history and geography in the grades.

Two semester hours each semester

Wednesdays 4.20-6.00 C. F. Jones

This course will continue through the year but each semester may be taken separately.

### German

One of the following courses will be given. Time subject to change to suit the students of the class.

- 1. ELEMENTARY GERMAN—The main purpose of this course is to develop reading and speaking ability. Grammar presented deductively, composition, reading of easy prose.
- 2. READING, COMPOSITION, CONVERSATION—The course takes up through the medium of suitable German texts a variety of topics designed to acquaint the students with essential facts about the German-speaking nations.

Two semester hours

Tuesdays 4.20-6.00

HEINRICH BOSSHARD

### Mathematics

One of the two courses listed below will be offered as a two-hour course, or both may be given as two one-hour courses. The time of meet-

ing is subject to change to suit the convenience of the class.

Mondays 4.20-6.00

F. B. WILLIAMS

1. MATHEMATICS IN SECONDARY SCHOOLS—A conference for teachers on "Essentials, and the best way to make them a part of the pupils' equipment." A free and frank discussion is desired; every topic and method must stand, or fall, on its merits.

2. Unified Course in "Higher" Mathematics—Adjusted to those who elect it; any desired topics.

# Psychology

INDIVIDUAL ADJUSTMENTS-A "laboratory" investigation by individual conference with the instructor (3-4 hours weekly) of the student's own adjustments and relationships, with their probable genesis and social significance; supplemented by a weekly group discussion to socialize the material examined, without sacrificing the anonymity of source essential to rapport and objectivity. The instructor will also recommend collateral reading appropriate to the student's individual needs. Limited to four students; selection will be made according to estimated need, probability and social importance of attaining a relatively high degree of insight into the motives and adjustments studied. Formal registration in the course must be made through the instructor. No credit toward a degree. R. R. WILLOUGHBY Mondays 5.00-5.50

## INSTRUCTORS

L. L. Atwood—Assistant Professor of Romance
Languages

Heinrich Bosshard-Assistant Professor of German

S. J. Brandenburg-Professor of Economics and Sociology

P. H. Churchman-Professor of Romance Languages

L. H. Dodd-Professor of Rhetoric

C. F. Jones-Professor of Economic Geography

David Potter-Assistant Professor of Biology

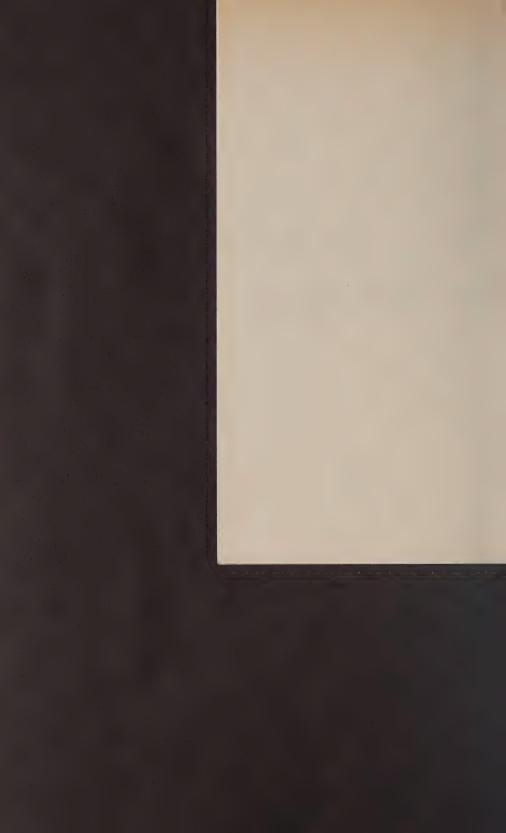
O. W. Richards-Assistant Professor of Biology

D. C. Ridgley-Professor of Geography

F. B. Williams-Professor of Mathematics

R. R. Willoughby-Research Associate in Psychology





# CLARK UNIVERSITY

WORCESTER, MASSACHUSETTS

Extension Courses of College Grade for Teachers and Others

Second Semester 1929-30

Open to Men and Women Courses meet once a week Late Afternoons, Evenings, Saturday Mornings

# PROGRAM OF COURSES

### MONDAY

4:20—6:00 MATHEMATICS, OR ASTRONOMY. Williams
The English Novel. Baker

### TUESDAY

4:20—6:00 Animal Biology. Richards French. Churchman 7:00—8:40 German. Bosshard

### WEDNESDAY

4:20—6:00 The Family, or Social Pathology.
Shankweiler
Geographic Influences in American History. Jones

5:00-5:50 French Seminar

## THURSDAY

+:20--6:00 BOTANY. Potter

ECONOMIC AND SOCIAL PROBLEMS.

Brandenburg

FRENCH CONVERSATION AND EAR

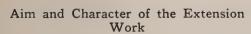
TRAINING. L. L. Atwood

#### FRIDAY

4:20--6:00 The Enjoyment of Art. Dodd

### SATURDAY

Open Date Available for courses found to conflict



Clark University will again offer during the second semster of this academic year (1929-30) a series of Extension Courses. Some of these courses, both in respect to content and time of meeting, are particularly intended for teachers in the schools of Worcester and the surrounding region. Many of them, however, have no such limited objective, but should appeal to the public on the grounds of utility or general culture.

In content those courses which primarily have the needs of the teacher in view will aim to provide up-to-date, exact, and scholarly surveys of subject matter. An effort will be made to touch also upon aims and methods, and to provide a background for the solution of practical problems of the classroom.

All of these Extension Courses are open to mature persons who, in the judgment of the instructor, are suitably prepared. Those who do not desire official records of work done are admitted as "auditors" and are not required to "matriculate." The courses are strictly of college grade and may be used for credit by those who are formally enrolled as candidates for the degree of Bachelor of Education in this University. Candidates for the degree of Bachelor of Arts may include these courses in their programs only when official authorization in advance is secured from the College Board. In similar circumstances candidates for the Master of Arts degree should secure the approval of their major department in each case.

Date of Opening

Classes will meet for organization and the beginning of work during the week Feb. 3-8, 1930,

on the day specified after the description of each course.

Attendance at the first meeting and promptness at all classes are highly desirable. Early registration, even before the opening date, will be of assistance in determining which courses shall be given; those courses for which a good demand is evident early will naturally receive the preference.

# Registration and Charges

Registration involves the filling out of an enrollment card and the paying of a fee. Registration for these courses may be attended to at the first class meeting or earlier, at the Bursar's Office. Tuition charges are \$8.00 for a course meeting one hour a week for one semester, and \$15.00 for a course meeting two hours a week for one semester.

The matriculation fee of \$5.00 is a charge for the opening of an official record in the office of the University Registrar. Matriculated students are given official certificates on which credit toward a degree may be granted at Clark University or elsewhere, subject to the standing regulations of the institution to which they may be presented.

After the second scheduled meeting in any course the names of those who have not completed registration as outlined above will be removed from the class lists unless definite arrangements for postponement of the fee have been made with the Bursar.

All fees are payable before the third meeting of the respective courses, unless arrangements for postponement are made with the Bursar.

# Standards, Credit, Terms of Admission

Only courses of college grade will be given, but students without the conventional preparatory training may be admitted to any course at the discretion of the instructor.

Courses will meet for periods of 50 or 100 minutes. The official hours for afternoon courses running for 100 minutes will be from 4:20 to 6:00; one-hour afternoon courses will usually run from 5:00 to 5:50; hours for Saturday courses will be decided by the individual instructors.

Credit. When presented for undergraduate credit in this University, one semester hour will normally be granted for a two-hour course (100 minutes) meeting 8 times, or a one-hour course (50 minutes) meeting 16 times, and two semester hours for a two-hour course (100 minutes) meeting 16 times.

Regular outside preparation or collateral reading is expected in every course, except in the case of auditors. This outside work will be similar in amount to the preparation expected in regular undergraduate courses, namely an average of two hours per week for each semester hour of credit in the course. Those who prefer to attend without doing any outside work are welcome, but will be classed as auditors.

For further information, address:-

C. E. MELVILLE, Registrar.

### LIST OF COURSES

NOTE: Any course for which there are fewer than 20 registrations at the time of the second scheduled meeting may be discontinued at the discretion of the instructor in charge.

Biology

1. Botany-A study of the major groups of the Plant Kingdom. The first semester includes a consideration of the structure and function of plants, their classification and their relation to their environment. The first part of the second semester will be spent in a study of type specimens of the slime moulds, bacteria, blue green algae, the true algae, fungi, mosses, ferns and club mosses. The last half of the semester will be devoted to an introduction to Systematic Botany. Methods of collecting, pressing and mounting will be treated, together with practice in the use of keys for the purpose of identification and classification of plants. (This course continues through the year, but either semester may be taken separately).

Two semester hours each semester

Thursdays, 4:20-6:00

DAVID POTTER

2. ELEMENTARY ANIMAL BIOLOGY—This course is intended for teachers, parents and others who wish to obtain a comprehensive view of the principles and problems of the biology of animals. The first semester includes a brief survey of the animal kingdom and the second semester will be devoted to the origin and life of animals with reference to their suroundings. Lectures, demonstrations and occasional field trips. (This course continues through the year, but either semester may be taken separately.)

Two semester hours each semester

Tuesdays, 4:20-6:00

O. W. RICHARDS

# Economics and Sociology

1. ECONOMIC AND SOCIAL PROBLEMS—This course is designed particularly for teachers of any of the

social sciences in the intermediate or secondary schools. It considers the economic aspects of important contemporary problems such as: labor organizations and employer relationships, wage theories and actual wages, unemployment, social legislation, economic and social reform programs, installment buying, chain-stores, speculation, business corporations, mergers and monopolies, the government and business, farm relief, tariffs, international trade and other economic relationships, the place of the United States in world economy, United States of Europe. Lectures, required readings, discussions and written tests.

Two semester hours

Thursdays, 4:20-6:00

S. J. Brandenburg

2. THE FAMILY. Origin and development of the family as a social institution; its relation to other basic institutions; changing functions of the family; causative factors underlying the modern disorganization of the home, with proposed measures for its conservation. Special consideration given to statistical studies and case analyses of contemporary marriage relationships.

Two semester hours

Wednesdays, 4:20-6:00 P. W. SHANKWEILER

3. Social Pathology. A study of the abnormal and subnormal classes in modern society, the poor, the unemployed, the disabled, the diseased, the degenerate, and others in need of special help or supervision, with primary emphasis on causative factors. Analysis of remedial measures employed by local agencies in the treatment of social maladjustment. For students of social problems, particularly for those interested in social work.

Two semester hours

Wednesdays, 4:20-6:00

P. W. SHANKWEILER

Note: Either course 2 or course 3, but not both, will be given, in accordance with the demand.

# English

THE NINETEENTH CENTURY NOVEL FROM DICKENS THROUGH GEORGE ELIOT. This course will aim, through lectures, critical papers, discussions and outside reading of one novel about each fortnight (1), to increase the student's familiarity with the works of several novelists between 1837 (the year of the publication of Pickwick) and approximately 1860 (the year in which appeared The Mill on the Floss); also (2) to supply biographical summaries and a digest of social and literary conditions during this earlier part of Victoria's reign as in some measure helping to account for the novels in their present form.

Preliminary lectures will cover such subjects as The Origin of the English Novel; The Eighteenth Century Realists; Decadence before Scott; Scott and Jane Austen.

The chapters in Bliss Perry's Study of Prose Fiction on Romanticism and Realism will be prescribed.

The reading of novels will include parts of Pickwick Papers and of Nicholas Nickleby and either Dombey and Son or David Copperfield complete; selections from Charles Reade, Charles Kingsley, Wilkie Collins and Mrs. Gaskell; Thackeray's Vanity Fair and one other novel; one choice from Anthony Trollope and one from the Brontës; two of George Eliot's novels. Other novels will be discussed and recommended.

Two semester hours Mondays, 4:20-6:00

G. E. BAKER

### Fine Arts

THE ENJOYMENT OF ART. A series of illustrated lectures equally divided between painting, sculpture and architecture. Important periods in each art, and the outstanding artists and their work in these periods will be emphasized, together with the underlying principles of appreciation. The aim of the course is to create for the student a background and a viewpoint for his further enjoyment of the arts.

Students may take the course as auditors or for credit. If for credit, there will be certain assigned readings and written or oral reports required. Books assigned may be drawn from the University Library.

Two semester hours Fridays, 4:20-6:00

L. H. Dodd

#### French

1. ELEMENTARY FRENCH. A general introduction to the language, with reading ability as its ultimate goal, but utilizing oral work based on phonetics, and making a careful study of the fundamentals of the grammar, with application to spoken and written French. This course is a continuation of the course given in the first semester, but is also open to new registrants who have had at least a year of French. If previous training does not include an elementary knowledge of phonetics, arrangements may be made for a few extra classes in that subject. The texts to be used are Fraser and Squair's New Elementary French Grammar and Jacob Greenberg's French Silent Reader. Second-year credit may be obtained in this course by those who do additional "background" work in the Complete Fraser and Squair

and in outside reading texts.

Two semester hours

Tuesdays, 4:20-6:00

2. LABORATORY COURSE IN METHODS FOR TEACH-ERS—Members of this course will attend the Elementary Course as observers, reading outside special assignments on grammar and syntax, methods, and other suitable topics. Periodic tests and brief informal discussions of methods and content will take place at convenient times. Outside assignments will be in H. E. Palmers' Oral Method of Teaching Languages or Principles of Language Study, Fraser and Squair's Complete French Grammar, R. T. Holbrook's Living French, E. G. Armstrong's Syntax of the French Verb, and other suitable books and articles.

Two semester hours

Tuesdays, 4:20-6:00

P. H. CHURCHMAN

P. H. CHURCHMAN

3. French Conversation and Ear-Training. A continuation of the work of the first semester, but new students may enter at this time without being handicapped by loss of the first semester. Open to anyone having a knowledge of the fundamentals of French grammar. A practical course, aiming to develop facility in the use of everyday French and the comprehension of spoken French. The texts will be Patton's "Causeries en France" (Heath) and "Le Petit Journal" (Doubleday, Doran). These will be supplemented by lectures in French, some of which will be illustrated, covering the various provinces of France, French customs and French art.

Two semester hours

Thursdays, 4:20-6:00

LELAND L. ATWOOD

4. SEMINAR—A study of contemporary developments in French literature and life, and in educa-

tion. Reports by members of the group on current French books, reviews, and new developments in the field of modern language teaching. Conducted mainly in French, but English may be used at any time. An informal gathering without fees or credit, that is no longer listed as strictly an extension course. Open to any interested persons. Wednesdays, 5:00-5:50

No Credit

Geography

GEOGRAPHIC INFLUENCES IN AMERICAN HISTORY-A lecture course tracing the influence of geographic conditions on the chief currents in American History. The geographical and historical combination of conditions that led to the discovery and exploration of America; the methods of settlement of the Spaniards, French and English in the extension of their American Empires; contrasts between the geography of New England and the South English sea-board colonies; the Western migration and the expansion of the United States from the Atlantic to the Pacific; the United States as a continental power, politically, industrially, commercially; the expansion of the United States into the Caribbean and to the Pacific; the United States as a world power. Though primarily a lecture course, reference will be made to source materials and to useful story materials suitable for use by teachers wishing to correlate history and geography in the grades.

Two semester hours each semester

Wednesdays, 4:20-6:00

C. F. Jones

This course continues through the year but each semester may be taken separately.

### German

READING, COMPOSITION AND CONVERSATION—The course takes up through the medium of suitable

German texts a variety of topics designed to acquaint the students with essential facts about the German-speaking nations.

Two semester hours

Tuesdays, 7:00-8:40

HEINRICH M. BOSSHARD

Mathematics

One of the following will be given if the number registering is sufficient:

- 1. Teaching Mathematics in Intermediate and Upper Grades. A discussion of methods and materials, and the goal to be reached. (A question box will be maintained.)
  - 2. Astronomy. (Non-mathematical.)

Descriptive, with a study of constellations and Star Lore.

Two semester hours

Mondays, 4:20-6:00

F. B. WILLIAMS

# Sociology (See Economics and Sociology) INSTRUCTORS

- L. L. ATWOOD—Assistant Professor of Romance
  Languages.
- G. E. BAKER—Assistant Professor of English.
  HEINRICH M. BOSSHARD—Assistant Professor of
  - HEINRICH M. Bosshard—Assistant Professor German
- J. Brandenburg—Professor of Economics and Sociology.
- P. H. CHURCHMAN—Professor of Romance Languages.
- L. H. Dodd-Professor of Rhetoric.
- C. F. JONES—Professor of Economic Geography.

  DAVID POTTER—Assistant Professor of Biology.
  - O. W. RICHARDS-Assistant Professor of Biology.
- P. W. SHANKWEILER—Assistant Professor of Sociology.
- F. B. WILLIAMS-Professor of Mathematics.

2. Elementary Human Physiology (first semester). Mr. RICHARDS Elementary Animal Biology. Mr. Potter 3. ECONOMICS AND SOCIOLOGY 1. Economic and Social Problems. MR. BRANDENBURG 2. The Family (second semester). Mr. Shankweiler Social Pathology (second semester). 3. Mr. Shankweiler ENGLISH Biography and Letters (first semester). 1. Mr. Dodd The Nineteenth Century Novel from Dickens through 2. George Eliot (second semester). MR. BAKER FINE ARTS

1. The Enjoyment of Arts (second semester).  $M_{R.}$  Dodd FRENCH

1. Elementary French. Mr. Churchman

2. Laboratory Course in Methods for Teachers.

Mr. Churchman

French Conversation and Ear-Training MR. ATWOOD
 Seminar.

### **GERMAN**

1. Elementary German (first semester). Mr. Bosshard

2. Reading, Composition, Conversation. Mr. Bosshard

## **MATHEMATICS**

1. Mathematics in Secondary Schools (first semester).

MR. WILLIAMS

2. Unified Course in "Higher" Mathematics (first semester).

MR. WILLIAMS

3. Teaching Mathematics in Intermediate and Upper Grades (second semester).

MR. WILLIAMS

4. Astronomy (second semester). MR. WILLIAMS

# PSYCHOLOGY

1. Individual Adjustments. Mr. Willoughby

Geography

1. The teaching of Geography in Grades 3,4,5+6

(first semester)

Mr. Ridgley

2. Geographic Influences in American History

Nr. C. J. Jones

# DEPARTMENTAL ANNOUNCEMENTS

Courses offered by the several departments are listed under three headings:

- 1. Primarily for Undergraduates, designated by numbers beginning with the figure (1).
- 2. For Graduate Students and Advanced Undergraduates, designated by numbers beginning with the figure (2).
- 3. PRIMARILY FOR GRADUATE STUDENTS, designated by numbers beginning with the figure (3).

Unless a statement to the contrary is made, all courses listed have been given during the current academic year and will be offered in 1930-31.

Credit for the first semester alone will be given in all courses except in cases where a Department, by a note following the description of the course, specifically reserves the right to withhold credit until the second semester of the course is satisfactorily completed.

Any course may be entered at the beginning of the second semester, with the consent of the instructor, by students who are prepared to take up the work of the course at that time.

## DEPARTMENT OF ANCIENT LANGUAGES

#### Professor Brackett

All courses in Greek and Latin are designed primarily for undergraduates. To any of these courses, however, properly qualified graduate students may be admitted by special permission.

For a major in Ancient Languages the requirement is twenty-four semester hours from the courses described below.

Provision is made in the courses in Greek both for students who have previously studied Greek in the high school, and for those who wish to begin the subject in college. In admitting students to the college full credit is given for one, two, or three years of high school Greek. Those who have pursued successfully the study of Greek for two or three years may enter directly

into course 12. Students who purpose to study Greek in college are strongly advised to take this subject in the praparatory school for two years if possible.

Since a substantial number of students are admitted to the college who have not previously studied Latin, the department from time to time offers to such students an opportunity to take an introductory course in this subject.

### COURSES IN GREEK

## 1. Primarily for Undergraduates

11. First Year Course. The purpose of this course is to furnish to students who have never studied Greek an opportunity to begin this subject in college. The course not only has in view the needs of students of language and literature, but in connection with the use of Greek in scientific nomenclature should have value for students of science as well.

Divisible only in special cases with the approval of the Department.

Open to Freshmen.

Three hours, through the year. Tu. Th. S., 11.

Mr. Brackett

12. Xenophon, Anabasis; Homer, Iliad. About ten weeks at the beginning of the year are devoted to reading selections from the Anabasis, the principal aim being to increase the student's facility in translation. The remainder of the year is devoted to the Iliad. The aim in this work is distinctly literary. In order that the student may gain an appreciation of the poem as a whole, the entire poem is read, partly in Greek and partly in various verse translations.

Open to Freshmen.

The Sal. 10

Three hours, through the year.

M: W. F., H.

MR. BRACKETT

13. The Greek Drama. Aeschylus, *Prometheus Bound;* Sophocles, *Antigone;* Euripides, *Medea.* This course is designed to give a general view of Greek tragedy. Lectures or collateral reading deal with the staging of a Greek play, the origin and development of the drama, and the other works of the authors

read. Two or three other plays of each of these authors are read in translation and discussed in class.

Three hours, through the year. T. Th. S., 10. Mr. Brackett Omitted in 1929-30.

16b. Greek Tragedy in English. This course deals with Greek tragedy as represented in the extant works of Aeschylus, Sophocles, and Euripides. All the reading is done in English translations, for the most part in verse. The central aim of the course is an intelligent and appreciative reading of the plays. Much attention is devoted to the connection between Greek and

will deal, in lectures, with the related subjects, and Aristotle's theories concerning tragedy.

Three hours, second semester.

Omitted in 1929-30.

Greek 17a. Greek History. This course will cover the period from the beginnings of Greek history to 146 B.C. Special emphasis will be devoted to those elements in the history and civilizatime.

Open to Fresh

Three hours, first semester. Tu. Th. S., 11.

To be offered in 1930-31.

MR. BRACKETT

# COURSES IN LATIN

# 1. Primarily for Undergraduates

11. First Year Course. This course is designed to give men who have never studied Latin an opportunity to learn the essentials of the subject in college. It is conducted entirely with reference to the needs of the general student and with emphasis on the practical usefulness of an acquaintance with Latin in everyday life.

Open to Freshmen.

Divisible only in special cases with the approval of the Depart-

Three hours, through the year. M. W. F., 8.

Omitted in 1929-30. MR. BRACKETT

12. Catullus, Selections; Cicero, de Senectute; Horace, Selections from the Odes. The year is about equally divided be-

tween the three authors. The study of Catullus and Horace is mainly literary; and in this connection a careful study is made of the nature and principles of literature.

Open to Freshmen.

Three hours, through the year. M. W. F., 11.

Mr. Brackett

14b. Letters of Pliny; Selection from the Histories of Tacitus, and from Juvenal. These authors are read with particular attention to the information the selections contain in regard to literary and social conditions under the empire.

Three hours, second semester.

Mr. Brackett

Omitted in 1929-30.

15a. Selections from Caesar and Cicero. This course is open to students who have had Latin 11 or its equivalent. The principal aim is to increase the student's ability to read Latin.

Three hours, first semester. M. W. F., 8. Mr. Brackett Omitted in 1929-30.

15b. Selections from Ovid's Metamorphoses.

Three hours, second semester. M. W. F., 8. Mr. Brackett Omitted in 1929-30.

16a. Lucretius, de Rerum Natura, Selections.

Three hours, first semester. M. W. F., 8. Mr. Brackett Omitted in 1929-30.

Latin 17b. Roman History. This course will deal with the history of Rome from the earliest period to the downfall of the Western Roman Empire, with special emphasis upon those aspects of the history which have permanently influenced western civilization.

Open to Freshmen with the consent of the instructor.

Three hours, second semester. Tu. Th. S., 11.

To be offered in 1930-31. Mr. Brackett

## DEPARTMENT OF BIOLOGY

Assistant Professor Potter,\* Assistant Professor Richards and Special Lecturer Miller

The courses in Biology are intended to give a knowledge of living organisms, including man, and their environment. Biology

<sup>\*</sup>Absent on leave, 1929-30.

11 presents a comprehensive view of Biology that is prerequisite to all other courses in the department. This course is planned for students seeking a cultural education as well as for those who intend to enter professional Biology or related fields.

An undergraduate major in Biology will require:

1. Biology 11 and eighteen semester hours in advanced courses which should be chosen with the approval of the staff and should include at least one year of Biology 28 and 29.

2. Chemistry 11 or 12, Physics 11, and Mathematics 10 or 11 (required of all students majoring in science). Other recommended courses are: Chemistry 16 115 and 18; Mathematics 113; Physics 28; and Psychology 11 and 12.

3. A reading knowledge of French or German—both languages if possible.

4. Fulfillment of other requirements of the University for the bachelor's degree.

Students planning to enter dentistry or medicine are advised to obtain the A.B. degree, majoring in Biology or Chemistry. When this is impossible the following course is suggested:

Freshman year; English 11, a foreign language (preferably German) Chemistry 11 or 12, Mathematics 10 or 11, an elective from division B.

Sophomore year; English 14 (if required), a foreign language (continued), Chemistry 16, Biology 11, an elective from division B.

Junior year; Chemistry 115, Biology (one course), Physics 11, two electives.

The following elective subjects are suggested by the American Medical Association: Drawing, Economics, English, Greek, Latin, Mathematics, Political Science, Sociology.

Graduate students who desire to study for the master's degree in Biology should present an undergraduate major in Biology and a broad training in the related branches of science. Programs of study for graduate students will be arranged upon consultation with the chairman of the Department. Opportunity is offered for instruction, supervised experimental work and independent investigation.

The laboratories are well equipped for the courses offered and

contain in addition some special equipment for advanced investigation in physiology. A small herbarium and a synoptic collection of animals are available for study. The University Library contains complete files of the more important periodicals for biological science and a representative collection of reference works.

Graduate scholarships are available for study in this department.

## COURSES IN BIOLOGY

## 1. Primarily for Undergraduates

11. General Biology. A general introduction to the fundamental principles and problems of Biology. The first semester is devoted to plant biology and the second to animal biology. Prerequisite to all other courses in the department. Three lectures and one laboratory period per week. Due to limited laboratory accommodations the number of students accepted for this course is limited.

Indivisible course.

Open to Freshmen.

Three hours, through the year. M. W. F., 10; W., 2.

Mr. Richards

✓ 12. Vertebrate Zoology. The elements of vertebrate anatomy, embryology and the development of the germ cells and their relation to genetics. Two lectures and two laboratory periods per week. Prerequisite Biology 11.

Indivisible course.

Three hours, through the year. W. F., 9; M. Tu., 2.

MR. RICHARDS

14. Botany. This course deals with a more detailed study of plant life and serves as a continuation course after Biology 11. Emphasis is placed upon those groups of plants which are of evolutionary significance. In addition this study will be augmented in the spring by field work to acquaint the student with the local flora. Prerequisite Biology 11. Three lectures and one laboratory period per week.

Indivisible course.

Mr. Potter

Omitted in 1929-30.

Three hours, through the year. Tu. Th. S., 11; Th., 2.

160. Microscopical Technique. A course dealing with the preparation of tissues for study with the microscope. The principles of fixing, sectioning and staining will be worked out in the laboratory. Hours and credit to be arranged.

MR. POTTER OR MR. RICHARDS

170. General Histology. A comprehensive course dealing with the cytology, tissue structure, and organology of vertebrate animals. Practical application of this subject especially in the fields of general biology and medicine will be taken up from time to time. Indivisible year course.

Three hours' credit for the year's work. S., 8-10, and an additional laboratory period.

MR. MILLER

18b. Bacteriology. An introduction to the principles of bacterial physiology, and to general bacteriological technique. Prerequisite is Biology 11. Two lectures and two laboratory periods per week.

Three hours, second semester. Omitted in 1929-30.

Mr. Potter

# 2. For Graduate Students and Advanced Undergraduates

21a. Invertebrate Zoology. A detailed study of the structure, life-histories and behavior of representative invertebrate animals. Emphasis is placed upon the laboratory work. Two lectures and two laboratory periods per week. Prerequisite Biology 11. Offered in alternate years.

Three hours, first semester. M., 2-5. Mr. Richards Omitted in 1929-30.

22. Human Physiology. A course primarily for students in Psychology. The topics to be studied include muscular action, the nervous system, nervous coördination, chemical coördination by internal secretion, the digestion, absorbtion, and utilization of foods in the body, the excretion of wastes and the maintenance of the body. Application of the information will be made to the analysis of conduct and the efficient use of the body. The detail of the course will be adjusted to the needs and training of the class. Prerequisite, Biology 11, or its equivalent, and consent of

the instructor. A year course (not divisible). Lectures, demonstrations and laboratory.

Three hours, through the year. Hours to be arranged. T., Th., 9

Mr. RICHARDS

24a. Taxonomy and Ecology of Plants. A course primarily for students majoring in geography. A study of the main types of vegetation and the use of keys for the identification of plants. Three lectures per week. Omitted in 1929-30.

Three weeks, first semester. M. W. F., 11. MR. POTTER

26. General Physiology. An introduction to the fundamental structure and behavior of living organisms, the analysis of their vital activities and of the physical-chemical nature of the functions underlying them. Open to students who have had Biology 11 and who satisfy the instructor as to their preparation in Chemistry and Physics. Two lectures and two laboratory periods per week.

Three hours, during the year. Tu. Th., 10; Tu. W., 2.

Mr. RICHARDS

28. Special Problems. Advanced, semi-independent study of an approved biological topic under the direction of a member of the staff. Hours and credit to be arranged.

STAFF OF THE DEPARTMENT

29. Seminar. One hour, during the year. Mr. RICHARDS

3. PRIMARILY FOR GRADUATE STUDENTS

- 30. Research. Topics to be arranged upon consultation with the professor in charge of the student's work. Hours and credit to be arranged.

  MR. POTTER OR MR. RICHARDS
  - 31. Problems in Morphology or Plant Biology.

MR. POTTER

32. Problems in General Physiology or Animal Biology.

Mr. Richards

## DEPARTMENT OF CHEMISTRY

Professor Merigold, Professor Warren, Assistant Professor Bullock

The instruction offered in Chemistry falls into two main groups:

First, courses intended primarily for undergraduates. These are designed for those students who wish to acquire the necessary foundation for professional work in Chemistry, for pre-medical students, and for those desiring some knowledge of the subject as part of their general education.

Second, courses intended primarily for graduates. These courses offer advanced instruction to students possessing the requisite foundation in Chemistry, Physics, and Mathematics, and afford training in the methods of chemical research.

## UNDERGRADUATE WORK

Students who expect to make Chemistry a profession should major in Chemistry and should either take a minor in Physics or at least two years' work in that subject.

Students intending to study Medicine should take as much work in Chemistry as possible. As minimum requirements for medical work, the following courses are essential: 11 or 12, 16 and 115. Pre-medical students wishing a more comprehensive course are advised to take 11 or 12, 13, 14, 15, 110, 18 and 216. Attention is called to the statement regarding pre-medical courses under the announcement of the Department of Biology.

The attention of all students intending to enter undergraduate courses in Chemistry is called to the matter of the laboratory fees and breakage deposits on page 29.

## GRADUATE WORK

It is the purpose of the Department of Chemistry to provide the graduate student with that broad training in the fundamental principles of Chemistry which shall adequately equip him for a subsequent scientific career. A considerable number of the students entering this department for graduate work will naturally look forward to an academic career. It is not intended, however, to provide training for such men alone, for the equipment for technical research, whether for public or private interests, requires equally a thorough familiarity with the underlying principles of science and with the methods of experimental investigation. Whether a student shall devote himself to pure or to technical research is a matter of individual interest and inclination rather than of training. The purpose of the department is to provide

the training on lines sufficiently broad to enable the student to exercise a choice between technical and purely scientific work.

## ADVANCED DEGREES AND RESEARCH

The requirements for advanced degrees cannot be met by the mere pursuit of a course of studies nor by the mere execution of a research. For this reason no definite course of graduate studies is outlined, but the student is expected to carry such courses as will enable him to acquire a comprehensive knowledge of the subject of Chemistry during the course of his residence at the University. Students who are not fully prepared for graduate work will be required to make up any deficiencies either before undertaking graduate work or while at the same time taking a limited amount of graduate work. In such cases it is to be expected that the time necessary to obtain an advanced degree will be correspondingly extended.

The degree of Master of Arts is the only advanced degree granted.

All students registered for the advanced degree are expected to devote not less than eighteen hours per week to laboratory work. A portion of the time may be devoted to special laboratory work in organic, inorganic, and physical Chemistry.

Graduate scholarships are available for students in this department.

# COURSES IN CHEMISTRY

### 1. Primarily for Undergraduates

✓11. General Chemistry. Chiefly inorganic. Systematic study of the elements and their principal compounds, and the fundamental laws and theories of Chemistry. Three lectures, and three hours of laboratory work per week.

Open to Freshmen who have studied Chemistry in High School. *Three hours*, through the year. M. W. F., 11; M., 2.

MR. MERIGOLD

▶ 12. Elementary Chemistry. Similar to course 11 in general nature and ground covered, but intended primarily for students having no knowledge of Chemistry on entering. Chemistry 12 is considered equivalent to Course 11 as preparation for advanced courses.

Divisible only by consent of the instructor.

Open to Freshmen who have not studied Chemistry in High School.

Three hours, through the year. Tu. Th. S., 9; W., 2.

Mr. Bullock

13. Qualitative Analysis. Basic and acid. Chiefly laboratory work, nine hours per week. Occasional lectures, and recitations upon the theories involved. Open only to students who have taken course 11 or its equivalent.

Three hours, through the year. Tu. F., 2. MR. WARREN

14. Quantitative Analysis. Chiefly laboratory work, with occasional lectures, recitations, and problems. A carefully selected series of quantitative determinations, designed to give the student as wide a range as possible of typical methods of quantitative manipulation, both gravimetric and volumetric. Six hours of laboratory work, and one lecture per week. Open only to those who take or have taken course 13.

Three hours, through the year. Tu. Th., 3:30. MR. MERIGOLD

15. Elementary Organic Chemistry. Lectures and recitations on the fundamental principles of organic chemistry. This course is designed for beginners and for those who intend to study medicine. Open to all who have taken course 11 or its equivalent.

Three hours, through the year. M. W. F., 8. MR. WARREN

designed for pre-medical students. Principles of qualitative analysis (basic and acid) and quantitative analysis (gravimetric and volumetric), as exemplified by the analysis of typical unknown substances. Chiefly laboratory work, nine hours per week. Occasional lectures, recitations and problems upon the theories involved. Open only to students who have taken course 11, or its equivalent.

Three hours, through the year. Tu. Th. F., 2.

MESSRS. MERIGOLD AND WARREN

18. Physical Chemistry. Two lectures and three hours of laboratory a week, introducing the student to the principal chapters of modern chemical theory. To be admitted to this course,

students must have passed Chemistry 11 and 14 and Physics 11. A knowledge of organic chemistry and calculus is desirable. Divisible only by consent of the instructor.

Three hours, through the year. W. F., 9; F., 2.

Mr. Bullock

110. Organic Synthesis and Analysis. Laboratory work, consisting of the preparation of typical organic compounds, qualitative testing for the ordinary elements and organic groups, the quantitative determination of carbon, hydrogen, nitrogen, and the halogens. Course 110 should be taken, if possible, in connection with course 15. The work of this course requires nine hours of laboratory work per week. Open only to students who take or have taken courses 13, 14 and 15.

Three hours, through the year. M. Th., 2. MR. WARREN

115. Pre-Medical Organic Chemistry. Lectures on the fundamental principles of organic chemistry and laboratory work. This course is designed to meet minimum requirements for admission to medical schools. Open to all who have taken course 11 or its equivalent.

Three hours, through the year. M. W., 8 and M., 2.

Mr. Warren

2. For Graduate Students and Advanced Undergraduates

212b. History of Chemistry. This course is intended to cover the historical development of the science. An attempt is made to give the student some knowledge of the individuality of the men whose work has resulted in the growth and development of modern Chemistry. Attention will be given also to the relation of Chemistry to other sciences at various periods of development. Lectures, collateral reading, reports and thesis.

Open to graduate students and seniors who take or have taken Chemistry 18 and 15 or equivalent courses.

Three hours, second semester. Tu. Th., 11. Mr. MERIGOLD

214. Advanced Quantitative Analysis (including Gas Analysis). Open only to students who have taken course 14. This course is primarily intended for those who expect to specialize in Chemistry, and may also be taken with advantage by those who intend to study Medicine. The laboratory work will be varied,

if desired, to meet the needs of individual students. Occasional lectures treat the subject systematically from both practical and theoretical standpoints. Laboratory work, nine hours per week.

Three hours, through the year. Tu Th., 2. Mr. Merigold

✓ 215. Advanced Organic Synthesis. The preparation of more difficult organic compounds, including the investigation of an original subject. Open to all who have taken course 110.

Three hours, through the year. M. Th., 2. MR. WARREN

- 216. Journal Reading. Practice in the use of current chemical literature. Assignment of journals for report and discussion. Two hours, through the year. Tu. F., 4. MR. WARREN
- ✓ 217. Intermediates and Dyestuffs. This course covers
  methods of preparation, properties and uses of the commoner intermediates employed in dyestuff manufacture followed by a study
  of typical representatives of the more important classes of dyestuffs. Lectures, collateral reading, reports and thesis.

Open to graduate students and undergraduates who take or have taken course 15.

Three hours, through the year. Tu. Th., 10. Mr. Bullock

218. Advanced Organic Chemistry. Lectures on selected subjects in organic chemistry and recitations. Open to all who have taken courses 15 and 115.

Three hours, through the year. M. W. F., 11. MR. WARREN

## 3. PRIMARILY FOR GRADUATE STUDENTS

31. Advanced Inorganic Chemistry. Discussion of special features of inorganic and analytical chemistry, theoretical and practical. Sources of error, limits of accuracy, preparation of pure inorganic materials and exact methods of analysis required in fields of research necessitating precise analysis. Principles of electro chemistry.

Twice a week, through the year, with laboratory work.

Omitted in 1929-30

Mr. Merigold

32. Advanced Theoretical Chemistry. Discussion of the principles underlying the transformation of matter and of the conditions for equilibrium in various systems. Applications of

the Phase Rule and the determination of the free energy of chemical reactions.

Three hours, through the year. Tu. Th. F., 9. Mr. MERIGOLD

**35b. Seminar.** Staff and graduate students. Reports on research work being carried on in the laboratory and report and discussion of recently published work in related fields.

Once a week, second semester. W., 5.

STAFF OF THE DEPARTMENT

## DEPARTMENT OF ECONOMICS AND SOCIOLOGY

Professor Brandenburg, Associate Professors Maxwell, and Lucas, Assistant Professor Shankweiler

A liberal education implies some systematic knowledge of the organization and functions of our economic and social order; to meet this need is the first aim of the department as at present constituted. This cultural objective, however, is not exclusive; that much of the work of the department may have a definite vocational bearing is quite obvious.

The courses in Economics are especially worthy of the attention of students looking forward to a business or professional career. These courses are intended to give the student an understanding of the economic structure of society and of its functioning, and also to train him in the critical analysis of economic problems. They aim primarily to prepare the student for the place of enlightened leadership which the community rightfully expects the college-bred man to assume, and to fit him for grappling with the broader problems that confront the business man. The department recognizes, too, the demand for the development of courses stressing the application of economic principles to business technique with the objective of fitting liberally trained men for capable functioning in the business world; expansion in this direction will continue as rapidly as facilities permit.

Courses numbered 117, 18a, 18b, 19b, 24a and 27b are designed to give the student an introduction to some of the more important business aspects of economics. They should be of particular value to the student planning to attend a graduate school of business administration as well as to the student who will enter business directly upon leaving college. These courses are given in rota-

tion enabling a student to elect all in his last two years. Attention is also called to Economics 13, 16, and 22 as training for a business career.

The courses in Sociology provide training in the fundamental concepts and methods of the science and lead the student toward the solution of problems faced by every citizen in his economic and social relationships. These courses attempt not only to give a knowledge of the science, but aim to be broadly cultural in content. Incidentally, they aim to stimulate appreciation by the student of the work of scientists and specialists in many fields, and of their contributions to problems of human welfare. Moreover, the courses are being developed and extended to meet the needs of students in applied fields. Particularly, students of education and social work will find offerings adapted to their interests.

Economics and Sociology are most happily associated, whether as major or minor subjects, with work in the departments of History and International Relations, Geography and Geology in their more economic aspects, Psychology, and English. Other combinations are not undesirable. For example, one equipping himself for industrial Chemistry might well choose Economics for his minor subject; or, one whose major interest lies in the social sciences, particularly in the fields of research into statistical and business problems, will find courses in Mathematics highly desirable.

Economics 11 is a prerequisite to all other courses in Economics, with the possible exception of Economics 14a and 14b. Sociology 11 is a prerequisite to further work in Sociology. Undergraduates majoring or minoring in either branch of the department are urged to take the introductory courses in their sophomore year; only under unusual conditions should they postpone these introductory courses. Students who believe that they will major in the department are urged to take Economics 10 in their Freshman year.

# GRADUATE WORK

The department regularly offers courses leading to the Master's and Doctor's degrees. Students expecting to enter upon advanced work should have creditably mastered basic courses in the field equivalent at least to the ordinary undergraduate major, i.e.,

twenty-four semester hours; those whose preparation is inadequate should expect to make good the deficiency before proceeding to study for a higher degree.

A sufficient range of courses will be offered in cycles of two or three years so that graduate students may be adequately prepared for candidacy for the doctorate in this department. The classification of courses as undergraduate, intermediate, and graduate is necessarily an elastic one. Graduate students electing courses in the undergraduate category will be required to do additional work; undergraduate students in courses of the intermediate group will be expected to do work of substantially graduate caliber.

Fellowships, scholarships, and other minor aids are available to students in the department (see catalogue, page ??); also a limited number of assistantships, carrying a modest stipend, are awarded to worthy students.

The attention of students in Economics and Sociology is directed also to closely allied courses offered in the Departments of Geography, Geology, History and International Relations, Mathematics and Psychology.

## COURSES IN ECONOMICS

### I. PRIMARILY FOR UNDERGRADUATES

v10. Social Science Survey. A survey course, designed to introduce the student to the methods and materials of the social sciences, and to build up a background of understanding for later work in Economics, Sociology, or other social sciences. The course will treat briefly the outstanding features of the earlier stages of economic and social life, the evolution of modern capitalism, and more fully the conspicuous aspects of the present day industrial world, such as: mechanization of industry; specialization in production; division of labor; reliance on power; natural resources and raw materials; markets; population; migration of peoples; regional, national and international interdependence, rivalries, and conflicts; the place of the United States in the world economy; problems of national concern, such as group and "bloc" interests, immigration, racial issues, big business, the tariff; monopoly, competition, private property, inheritance; diffusion

and concrentation of wealth. This course may not be counted as a part of the major or minor requirement.

Indivisible course, designed especially for Freshmen; Sophomores may take the course with reduced credit.

Three hours, through the year. M. W. F., 9.

Mr. Brandenburg

11. Principles of Economics. An introduction to the fundamental economic principles, together with a study of the practical application of these principles in the problems of American life. Prerequisite, Sophomore standing; Economics 10 desirable. Indivisible course.

Three hours, through the year. M. W. F., 10. Mr. Lucas 13. Money, Banking, and the Business Cycle. The principles of money and banking, with special reference to their functions in the present economic organization of society. History of money and banking in the United States and Western Europe. The Federal Reserve System will be considered in some detail. Foreign exchange, organized speculation in its relation to the money market, and the business cycle are included in the subject matter of the course. Prerequisite, Economics 11. Graduate students registering in this course may receive credit by doing additional work. Indivisible course.

Three hours, through the year. M. W. F., 10. Mr. MAXWELL To be omitted 1930-31.

14a. Economic History of Western Europe. The development of European industry and commerce since the Industrial Revolution. This course may, with the consent of the instructor, be elected concurrently with Economics 11.

Three hours, first semester. M. W. F., 9. Mr. MAXWELL Omitted in 1929-30.

14b. Economic History of the United States. The economic progress of the United States from the Colonial period to the present. Such topics as the following will be discussed: economic life in the colonies; the development of agriculture and manufactures; changes in the forms of transportation; domestic and foreign commerce; tariff policy; banking, currency, and public finance; problems of industrial combination. This course may,

with the consent of the instructor, be elected concurrently with Economics 11.

Three hours, second semester. M. W. F., 9. Mr. MAXWELL Omitted in 1929-30.

15a. Public Finance. A study of the principles of public expenditures, revenues, and debts, with particular reference to American conditions. Prerequisite, Economics 11. Graduate students registering in this course may receive credit by doing additional work.

Three hours, first semester. M. W. F., 9. Mr. Maxwell To be omitted 1930-31.

16b. Statistics. Methods of collecting, analyzing, and presenting statistical data with special reference to economic statistics. Text-books, lectures, and problem work. Prerequisite, Economics 11. A laboratory period will be required.

Three hours, second semester. M. W. F., 9. MR. MAXWELL

117. Principles of Accounting. The organization and use of financial records, theory of debits and credits, construction and interpretation of the main financial statements, proper treatment of reserves and surplus, accounting for depreciation, handling intangibles, and other special problems. Emphasis is on the use of accounting records as an aid to business management, rather than on the technique of procedure. A two-hour laboratory period is required. Prerequisite, Economics 11. Indivisible course.

Three hours, through the year. Tu. Th., 10; Th., 2-4.

MR. Lucas

18a. Business Organization. This course discusses the evolution and forms of business and industrial organization; the proper organization from the standpoint of management as well as from the standpoint of the public at large; the integration and combination of business units. It serves as an introduction to the problems relating to the financial policies of corporations. Prerequisites, Economics 11.

Three hours, first semester. Tu. Th. S., 9. MR. Lucas

18b. Business Finance. This course is virtually a continuation of Economics 18a. It discusses in detail the problem of the

formation and capitalization of corporations, promotion, underwriting, receivership, failure and reorganization, and the proper administration of income. The relation of government to business is also considered. Prerequisites, Economics 11 and 18a.

Three hours, second semester. Tu. Th. S.,10. MR. LUCAS

19b. Economics of Transportation. History and present status of rail, water, and highway transport; theories of ratemaking; problems of intercorporate relationship, public regulation, government operation, and chief problems of the present. Prerequisite, Economics 11.

Three hours, second semester. Tu. Th. S., 9. Mr. Lucas To be omitted in 1930-31.

- 2. For Graduate Students and Advanced Undergraduates
- **22.** Labor Problems. A study of labor organizations; the aspects of labor questions as reflected in labor legislation; the labor of women and children or other special classes; minimum wage; social insurance; employers' associations; the selection and training of workers; labor turn-over; welfare work; shop committees; profit-sharing; and similar questions. Prerequisites Economics 11 and 14b.

Three hours, through the year. M. W. F., 11
To be omitted 1930-31. Mr. Brandenburg

210b. Economic and Social Reform. The historical and economic background of reform movements; socialism as a criticism of the system of the classical economists and of existing institutions, as a theory of social progress, and as a program of social reform. Prerequisite, Economics 11 and 14a or 14b.

Three hours, second semester. M. W. F., 11
Omitted in 1929-30. Mr. Brandenburg

23b. Recent Monetary and Financial Problems. This course will deal with important developments occasioned by the War in the monetary, banking and fiscal systems of the principal European countries and the United States. The relationship between these changes and government finance will receive attention, together with recent proposals for monetary reform. Reports and

a thesis will be required. Prerequisites, Economics 11 and other courses prescribed by instructor.

Three hours, second semester. M. W. F., 10 Mr. MAXWELL Omitted in 1929-30.

24a. Marketing Methods and Policies. This course acquaints the student with our general system of commodity distribution. It discusses the distributive mechanism, the competitive aspects of marketing such as price policies, brand policies, and unfair competition; market analysis, and demand creation. Recent developments are analyzed. The social point of view is stressed throughout. Each student is required to do a certain amount of individual research work. Prerequisite, Economics 11.

Three hours, first semester. Tu. Th. S., 9. MR. Lucas To be omitted in 1930-31.

25b. Problems in Public Finance. Certain important financial questions, relating particularly to the United States, will be examined in more detail than is possible in Economics 15a. An historical survey of federal finance will be made with stress put upon recent developments. State and municipal finance will receive some attention. Reports and a thesis will be required. Prerequisites, Economics 11 and 15a.

Three hours, second semester. M. W. F., 9. Mr. Maxwell Omitted 1929-30.

27b. International Trade and International Finance. This course acquaints the student with the nature and theoretical basis of foreign trade. A thorough analysis is made of the principles underlying the international movement of goods. The foreign trade of the United States, its effects on our economic and social life, the channels of trade, methods of ocean transportation, the financing of foreign trade with emphasis on foreign exchange, government promotion and interference with trade with especial attention to protective tariffs, are some of the more important problems discussed.

Prerequisites Economics 11, and Economics 13.

Three hours, second semester. Tu. Th. S., 9. Mr. Lucas To be omitted in 1930-31.

28. Research in Selected Economic Problems. The work in this course consists of the first hand analysis of important

problems connected with the production and marketing of goods. Sufficient text-book work and formal class-room discussion is given to furnish the student with the proper background. Most of the work, however, consists of independent research under the direction of the instructor in charge. The problems to be analyzed are chosen on the basis of the qualifications and interests of the student. Limited enrollment: consent of the instructor required.

Three hours, through the year. Hours to be arranged.

7, Th., Sat., 11 MR. Lucas

## 3. PRIMARILY FOR GRADUATE STUDENTS

✓ 31. International Economic Policies. National tariff policies
or other commercial restrictions with the international problems
arising therefrom; national, private, or public establishments for
the promotion of foreign trade; banking and credit facilities as
factors in foreign trade; commercial treaties; navigation laws and
general maritime policies of important commercial nations.

Two hours, throughout the year. M., 7-9 MR. BRANDENBURG

32a. Land Economics. Land Economics is a study of those social and economic relationships arising out of man's dependence on land as a factor in the production of economic goods. The course studies the economic concept of land in contrast with the geographical and legal concepts; property in land and forms of land tenure; the economic characteristics of land as contrasted with the other factors of production; costs involved in adapting land to the needs of men; rent and income from land together with an intensive study of the theory of rent as applied to various types of land; rural and urban tenancy and ownership; land taxation, land credit, land values, etc.

Three hours, first semester. M. W. F., 11.
Omitted in 1929-30.

Mr. Brandenburg

38a. History of Economic Thought to the End of the 18th Century. Study will be made of those periods important in the history of economic thought, starting with Greek antiquity. Somewhat less attention will be given to Roman antiquity and to the Middle Ages. In the modern period, the contributions of the Mercantilists, the Physiocrats and Adam Smith will be estimated.

Three hours, first semester. M. F., 3:30-5. Mr. MAXWELL To be omitted in 1930-31.

✓38b. Modern Economic Thought. The rise and development of modern schools of economic thought will be traced, starting with the English classical school and proceeding to examine the German historical school, the Austrian school, and the mathematical school. Some attempt will be made to treat recent developments. Attention will be given rather to the history of thought than to analytic criticism of specific doctrines.

Three hours, second semester. M. F., 3:30-5. Mr. Maxwell To be omitted in 1930-31.

39. Value and Distribution. An advanced course in economic theory, involving a critical reading of Smith, Ricardo, J. S. Mill, and representative modern economists. Intended to trace the progress of economic thought since the early part of the nineteenth century and to train the student in critical consideration of economic principles. The course is conducted mainly by discussion in which the students are expected to take an active part. Indivisible course.

Three hours, through the year. M. F., 4. MR. MAXWELL Omitted in 1929-30.

311. Seminar in Economics and Sociology. Round-table meetings are held fortnightly in the evening for presentation of the results of investigation by members of the Seminar. As occasion offers, other persons are invited to address the Seminar on matters of general interest. All graduate students in the Department are expected to attend. Seniors majoring in Economics and Sociology are urged to do so.

Second and fourth Thursdays of each month at 7:30.

THE STAFF OF THE DEPARTMENT

### COURSES IN SOCIOLOGY

1. Primarily for Undergraduates

(See also Economics 10)

11. Introduction to Sociology. This course will afford familiarity with the materials of Sociology, knowledge of the scope of Social Science, and an insight into methods of studying so-

ciety. It will review the chief concepts of the science, with illustrations from the literature of the subject and the phenomena of contemporary social life. It will offer a brief introduction to social problems, with assigned topics for investigation. Prerequisite, Sophomore standing. Sociology 11, or its equivalent, is a prerequisite to all other courses in Sociology.

Indivisible course.

Three hours, through the year. Tu. Th. S., 8.

Mr. Shankweiler

2. For Graduate Students and Advanced Undergraduates (See also Economics 210b and Economics 22)

21a. The Family. Origin and development of the family as a social institution; its relation to other institutions; changing functions of the family; causative factors underlying the modern disorganization of the home, with proposed measures for its conservation. Special consideration given to statistical studies and case analyses of contemporary marriage relationships. Prerequisite Sociology 11.

Three hours, first semester. Tu. Th. S., 10.

Mr. Shankweiler

υ 24b. Social Pathology. A study of the abnormal and subnormal classes in modern society, the poor, the unemployed, the disabled, the diseased, the degenerate, and others in need of help or supervision, with primary emphasis on causative factors. Analysis of remedial measures employed by local agencies in the treatment of social maladjustment. For students of social problems, particularly for those interested in social work. Prerequisite, Sociology 11.

Three hours, second semester. T. Th. S., 10.

Mr. Shankweiler

22 (a and b). Urban Sociology. A study of the growth, structure, functions, and control of modern cities, including some reference to the comparative health, vitality, intelligence, behavior, and culture of rural and urban communities. The second half of the course will be devoted primarily to a survey and analysis of the local community, the structure, functions, and interrelationships of its institutions. Supervised field studies will provide lab-

oratory exercises for the application and illustration of fundamental methods and objectives in sociological research. Conferences on individual projects by appointment. Open to advanced students. Prerequisite Sociology 11. Divisible course.

Three hours, through the year. Tu. Th., 4:00-5:30.

Mr. SHANKWEILER

25b. Educational Sociology. The major content of this course will be: social principles of education; movements for the reconstruction of the curriculum; socialization of administration and pedagogy; evaluation of education through surveys; social factors in the composition of the teaching force and the pupil population; the place of the school in larger communal relations. Prerequisite, Sociology 11.

Three hours, second semester. Hours to be arranged.

Mr. Shankweiler

To be omitted in 1930-31.

28a. Population Problems. A review of the biological theories of society; modes of limitation and selection of population; vital statistics and population trends; a survey of resources for the support of population; past and prospective modes of control; influence of selective factors on welfare; problems of race, family, and general progress associated with population changes. Prerequisite, Sociology 11.

Three hours, first semester. T. Th. S., 10.

Mr. SHANKWEILER

## 3. Primarily for Graduates Students

(See also Economics 311)

31b. History of Sociology in the United States. Intended for graduate students of the social sciences, particularly for those majoring in Sociology. The major content of this course deals with the development of American social thought, prefaced by a brief resumè of European backgrounds, and concluding with modern trends in Sociological theory. Seminar method. Hours to be arranged.

Three hours, second semester. Omitted 1929-30.

Mr. Shankweiler

32. Sociology Seminar. Intended for students of graduate standing working on research projects.

Two hours, through the year. Hours to be arranged.

Mr. Shankweiler

# DEPARTMENT OF ENGLISH

Professor Ames, Professor Dodd, Assistant Professor Baker

Beginning with the year 1929-30, a course in the Appreciation of the Fine Arts given by Professor Dodd is a requirement for all students to be completed either in the Freshman or the Sophomore year. This course is not counted in fulfillment of the requirement in *English*, page 47, d.

Prescribed work in English consists of English 11, required of all Freshmen, and 6 additional semester hours of English literature or composition, required to be completed by the end of the junior year. A major in English consists of twenty-four semester hours, including English 11. A minor of eighteen semester hours, including English 11.

THE PRENTISS CHENEY HOYT PRIZE IN POETRY

A prize of fifteen dollars is awarded annually by the Department for the best undergraduate verse. This is the interest on a fund established by the alumni as a memorial to Prentiss Cheney Hoyt, Professor of English at Clark University from 1909 to 1920.

## COURSES IN ENGLISH

- 1. Primarily for Undergraduates
- ✓ 11. English Composition. The course aims through constant practice in composition and the reading of literature to give the student greater facility in written expression.

Required of Freshmen.

Three hours, through the year. T. Th. S., 11 and 12.

Mr. Baker

12. Public Speaking.—Theory and practice in the composition and delivery of various forms of extemporaneous address. Open to Freshmen.

Three hours, second semester. W. F., 12, and afternoon hour to be arranged.

Omitted in 1929-30.

Mr. Baker

✓ 13. Shakespeare. A general survey of Shakespeare's works, including the reading and class discussion of twenty plays. Prerequisite, English 11.

Three hours, second semester. M. W. F., 10. Mr. Ames

15a. A Survey of English Literature. A course in English literature from its beginnings to the end of the seventeenth century. Prerequisite: English 11.

Three hours, second semester.

Mr. Ames

Omitted in 1929-30.

16b. English Composition. Weekly themes in exposition and narration. Class criticism. Open to students who have attained high standing in English 11.

Three hours, second semester. M. W. F., 11. Mr. Baker

17a. The Romantic Movement in English Literature. Prerequisite: English 11.

Three hours, first semester. Tu. Th. S., 9. Mr. Ames To be omitted in 1930-31.

- 18a. The Bible. This course aims to stimulate an intelligent appreciation of the Bible as literature. Prerequisite: English 11.

  Three hours, first semester. M. W. F., 10. Mr. Ames To be omitted in 1930-31.
  - 19b. English Literature of the Eighteenth Century. Three hours, second semester. M. W. F., 10. MR. AMES Omitted in 1929-30.
- 110b. Nineteenth Century Poetry. A study of English poetry from Tennyson to Kipling. Prerequisite: English 11.

  Three hours, second semester. Tu. Th. S., 9. Mr. Ames

To be omitted in 1930-31.

111. American Literature. Readings in American Literature, from the Colonial period to the present day. The course may be elected for the year or for the first semester only. Open to Freshmen, with the approval of the instructor.

Three hours, through the year. Tu. Th. S., 12. MR. AMES

112. The Modern Essay. A study of English and American essays from 1820 to the present day, with appropriate collateral reading in fiction. The course may be elected for the year or for the first semester only. Prerequisite: English 11.

Three hours, through the year. Tu. Th. S., 9. Mr. Ames Omitted in 1929-30.

113a. Modern English Drama. A study of contemporary English dramatists.

Open to Freshmen.

Three hours, first semester. Tu. Th. S., 10. Mr. Dodd To be omitted in 1930-31.

114b. Elizabethan and Restoration Drama. A study of the plays written by Shakespeare's distinguished contemporaries and his successors of the Restoration.

Three hours, second semester. M. W. F., 9. Mr. Dodd

121b. Biography and Letters. A study of the biography, autobiography and correspondence of distinguished authors, together with painters and sculptors, from the eighteenth century to the present day. This course is open only to upper classmen, who are proficient in English.

Three hours, second semester. M. W. F., 9. Mr. Dodd

122a. Modern Poetry. A study, in representative contemporary poets, of the new tendencies in verse. For those wishing it opportunity is afforded for original verse composition.

Open only to upper classmen who are proficient in English.

Three hours, first semester. M. W. F., 9.

MR. Dodd

123a. The 19th Century Novel in England. A study of the important novelists from Scott to Hardy. Open to Freshmen with the approval of the instructor.

Three hours, first semester. M., 8; W. F., 12. Mr. Baker To be omitted in 1930-31.

124a. American Drama. A study of the American drama from colonial times to the present day.

Open to Freshmen.

Three hours, second semester. Tu. Th. S., 10. Mr. Dodd

125b. The Short Story. A study of representative short stories in English and American literature.

Open to Freshmen.

Three hours, second semester. Tu. Th. S., 10. Mr. Dodd To be omitted 1930-31.

126b. Modern Continental Drama. Contemporary drama: Norway, Russia, Germany, Austria, France, Spain and Italy. A companion course to Modern English Drama.

Three hours, second semester. Tu. Th. S., 10. MR. Dodd

130a. The Modern Novel in England. A successive course to the Nineteenth Century Novel.

Three hours, first semester. W. F., 12, and a third hour to be arranged.

MR. BAKER

To be offered in 1930-31.

## FINE ARTS

**1a.** Fine Arts. A course in the appreciation of painting, sculpture and architecture. Illustrated lectures, assigned readings, field trips. This course is not counted in fulfillment of the requirement in *English*, page 47, d.

Three hours, second semester. M. W. F., 9. Mr. Dodd

# DEPARTMENT OF GEOGRAPHY

A complete statement of the aims and the scope of the courses in Geography and the related subjects, Physiography, Meteorology and Climatology, will be found in the announcement of the Graduate School of Geography on pages 63 to 80.

# DEPARTMENT OF GEOLOGY

#### PROFESSOR LITTLE

## 1. Primarily for Undergraduates

which compose the earth's surface, the physical processes which act upon them, the internal forces which deform them, and the land forms which result. Many of the practical applications are indicated. Except that the study of weather and climate is omitted, this course may be taken as an introductory course in Physiography.

Second semester. The geological history of the earth including the geography of the past and the evolution of life as interpreted through the study of rocks and fossils.

Three recitations and one laboratory period weekly. Occasional local field trips are taken. Attendance on one out-of-town field

trip lasting two days or more may be required.

Divisible only in special cases with the approval of the Department.

Three hours, through the year. M. W. F., 8; Th., 2.

MR. LITTLE

121a. Crystallography, Mineralogy, and Blowpipe Analysis. A study of the geometrical forms assumed by minerals which are of assistance in their identification, a discussion of the physical properties of minerals which allow of their recognition, and the performance of simple chemical reactions, largely with dry reagents, which may supplement the preceding tests. Two class meetings and one laboratory period weekly.

Three hours, first semester. W. F., 11, and F., 2. MR. LITTLE

122b. Economic Geology. A study of the origin of the deposits of useful minerals and a discussion of the world's more important occurrences. Special attention is given to the distribution and control among the various countries of non-metallic deposits such as coal, petroleum and phosphates; and deposits of metal such as iron, copper and gold. Elementary Chemistry and Geology are desirable. Two class meetings and one laboratory period weekly.

Three hours, second semester.

In 1929-30, courses 121 and 122 were combined in a special course meeting twice a week for the year. Tu. F., 3

# DEPARTMENT OF GERMAN

PROFESSOR RANDOLPH, ASSISTANT PROFESSOR BOSSHARD

The Department of German provides the necessary courses for those who wish to take German in partial satisfaction of the general requirements in foreign language (see page 47), and through the alternation in successive years of the courses beyond the second year, which are open to men who have had either two or three years of German in college, provides opportunity also for those who wish to take this language as a major. A major in German consists of at least twenty-four semester hours selected from the courses announced here.

German 11 offers to those who have not previously studied German an opportunity to begin that language in college. German 12 provides a means of meeting the requirements of a course of second year college grade in foreign language. A full year course of two half-courses with numbers above 12 should be taken by those who plan to offer German in fulfillment of the requirement of three years' credit in some one foreign language.

## COURSES IN GERMAN

## 1. PRIMARILY FOR UNDERGRADUATES

✓1. Elementary German. Drill in pronunciation and grammar; composition; reading of easy prose. Indivisible course.

Open to Freshmen.

Three hours, through the year. M. W. F., 8 and 9.

Mr. Bosshard

▶ 12. Second Year German. Review of grammar, with some oral or written translation from English into German; the reading of several easy pieces of modern prose. The course is a continuation of German 11.

Open to Freshmen.

Three hours, through the year. Tu. Th. S., 9 and 12.

Mr. RANDOLPH

√13. Advanced Reading and Composition. The prime object of the course is to develop further the ability to read with accuracy and ease. Two meetings a week are devoted to reading; the texts employed are not especially difficult, but the assignments are of considerable length. The works read are varied from year to year. The third meeting in the week is devoted to German composition.

German 12 or its equivalent is a prerequisite for this course.

Open to Freshmen.

Three hours, through the year. Tu. Th. S., 11.

Mr. RANDOLPH

14. Introduction to the Study of German Literature.

Particular attention is paid to the writers of the classical period; such texts are read as Lessing's Minna von Barnhelm and Emilia Galotti, Schiller's Jungfrau von Orleans and Wilhelm Tell, and Goethe's Egmont and Hermann und Dorothea. Lectures treat the history of German literature in outline from the earliest times down to the end of the eighteenth century, and deal more fully with the lives, writings and influence of the great classicists whose works are studied.

German 12 or its equivalent is a prerequisite for this course. Open to Freshmen.

Three hours, through the year. Tu. Th. S., 11.

Omitted in 1929-30. Mr. RANDOLPH

16. Rapid Reading and Composition; Scientific German. A course corresponding to German 13, and embodying the course in Scientific German formerly given separately. The chief aim of the course is to develop facility in reading.

For men not primarily interested in literature who desire to acquire skill in using German in their work in other fields.

Three hours, through the year. M. W. F., 11.

Mr. Bosshard

Omitted in 1929-30.

17b. Grillparzer and Hebbel. German literature in the first half of the nineteenth century, with particular attention to the drama. The aims and methods of the course are similar to those of German 14.

German 12 or its equivalent is a prerequisite for this course.

Open to Freshmen.

Three hours, through the year. Tu. Th. S., 11.

Omitted in 1929-30. Mr. RANDOLPH

18. Advanced Reading and Conversation. The course takes up through the medium of suitable German texts a variety of topics designed to acquaint the student with essential facts about Germany and the German people. About a third of each recitation hour is devoted to conversation in German. Open to students who have had at least three years of work in the language.

Three hours, through the year.

Omited in 1929-30.

19. The German Novel. Lectures on the history and nature of the novel; the reading of a few modern novels in class; collateral reading and reports. In the beginning the lectures and reports are given in English, but in the second half year the course is conducted in German.

Three hours, through the year. M. F. W., 10.
Omitted in 1929-30. Mr. Bosshard

191. Contemporary German Literature. Lectures, interpretations, reading in class, collateral reading and reports. In the beginning the course is conducted in English, but in the second semester in German.

mester in German.

Three hours, through the year. M. W. F., 11 Mr. Bosshard

# DEPARTMENT OF HISTORY AND INTERNATIONAL RELATIONS

Professor Blakeslee, Professor Dennis,\* Professor Hedges,\*\* Assistant Professor Lee, Assistant Professor Eaton§

### Undergraduate Work

The aim of the department in its undergraduate work is to give in its several courses a broad knowledge of the more significant aspects of the growth of the leading countries of the world. This includes the study not only of the important facts, but more especially of the processes of development in government, diplomacy, society, business, religion, science, and education. The courses are not limited to a consideration of Europe and the United States, but include the progress and present-day conditions of the leading countries of South America, Asia, and Africa. While the work is designed primarily to give a cultural knowledge of general world affairs, many of the courses are of especial value to those who are preparing to teach, or to enter the field of law, theology, social service, or government.

Course 11, primarily for Freshmen, is open to members of all

<sup>\*</sup>Absent on leave, second semester, 1929-30.

<sup>\*\*</sup>Absent on leave, 1929-30.

<sup>§</sup>For 1929-30.

ciasses; courses 15, 16, 17 and 18 are open to Sophomores, Juniors and Seniors, although History 11 or its equivalent will normally be required as a prerequisite for courses 15, 16 and 18.

## GRADUATE WORK

The distinctive feature of the graduate work is the emphasis it places upon the various aspects of International Relations. Without neglecting investigation in the economic, political, and social life of preceding centuries, it makes an especial study of the problems and the difficulties constantly arising in the international relations and diplomacy of the family of states. The field includes not only the United States and the nations of Europe, but also the newer and rapidly developing states of Asia, Latin America, and Africa.

## FELLOWSHIPS IN HISTORY AND INTERNATIONAL RELATIONS

A Fellowship in American History, known as the American Antiquarian Society Fellowship, has been established by members of the American Antiquarian Society. It has an annual value of three hundred dollars in addition to remission of tuition fees.

The subject of research chosen by the Fellow for his Doctor's dissertation should be selected within the field of American History before 1880, the period in which the Library of the American Anitquarian Society, located in Worcester, is of greatest assistance to historical investigators. In addition to the society's valuable manuscripts of the Colonial period, it has an unequalled collection of books printed in America in the early period and of American newspapers from 1660 to 1860.

Regular University Fellowships and Scholarships are also available for students in this department.

#### THE DOCTORATE

The various courses offered in the department are so arranged, in cycles of two or three years, that students working for their doctorate will be enabled to secure a full program each year. Those taking History as a major are advised to elect their minor either in Geography or in Economics.

A feature of the method of instruction in the department is the frequent informal conferences between instructor and student, and the Seminar method in many of the courses. The following courses in related departments are closely connected with work in History, and may advantageously be taken to supplement major work in the Department of History and International Relations,

#### DEPARTMENT OF GEOGRAPHY

- 10. Fundamentals of Geography.
- 15a. Economic Geography (Agricultural).
- 16b. Economic Geography (Industrial).
- 181b. Geography of North America.
- 185b. Geography of Europe.
- 243a. Economic Geography of South America.
- 37a. General Principles of Anthropogeography.
- 375a. Geography of Europe.
- 383a. Caribbean America.
- 384b. South America.

DEPARTMENT OF ECONOMICS AND SOCIOLOGY

- 14b. Economic History of the United States.
- 31. International Economic Policies.

DEPARTMENT OF PSYCHOLOGY

202. Social Psychology.

# COURSES IN HISTORY AND INTERNATIONAL RELATIONS

## 1. PRIMARILY FOR UNDERGRADUATES

11. Introduction to the History of Europe. The course covers the period from the fall of Rome to the present time, and serves as a general introduction to further historical study. The aim is to give a clear and accurate picture of the life and of the great movements of the medieval and early modern period. Indivisible course.

Open to Freshmen.

Three hours, through the year. Tu. Th. S., 10. MR. LEE

15a. History of England from the 15th Century to the Present. A general course. Lectures, textbooks, collateral reading and quizzes. The purpose is to discuss the life of Englishmen at home, in relation with the Continent, and in the Empire.

Three hours, through the year. M. W. F., 9. MR. DENNIS

16b. Europe Since 1815. A general survey of the history of continental Europe from the end of the Napoleonic period to the present time. Attention will be given to the development of democracy and nationalism, the growth of modern imperialism and the partition of Africa, as well as the industrial revolution and the consequent spread of Socialism. Emphasis will be laid on the causes and course of the World War and on the present situation in Europe. History 11 or its equivalent is desirable as a prerequisite.

Three hours, second semester. Tu. Th. S., 11. MR. LEE

17. American History Since 1783. After a brief survey of the colonial beginnings of American history and the American Revolution, the course will treat carefully the period since 1783. Emphasis will be placed upon the newer points of view in the study and writing of American history.

Divisible only in special cases with the approval of the Depart-

ment.

Three hours, through the year. M. W. F., 10. MR. EATON

18. A Survey of International Relations. The course will give a general survey of the whole field of international relations and furnish a foundation for further and more specialized work. It will consider the chief factors involved in this study, such as race, nationality, historical tradition, population, boundaries, economic resources, and imperialism; and present an outline of the important concrete problems of the world at the present time.

Three hours, through the year. M. W. F., 11.

Mr. Blakeslee

19b. France from the Renaissance to the Revolution. This course will attempt to present in greater detail than is possible in History 11, the development of political and social conditions which eventually led to the French Revolution. In addition, some attention will be given to French foreign relations and French influence in European affairs. The work will be carried on by means of lectures, assigned readings, and written reports.

Three hours, second semester.

Omitted in 1929-30,

MR. LEE

2. For Graduate Students and Advanced Undergraduates

21b. Selected Topics in Modern Diplomatic History. Lectures and research work in various fields and world diplomacy. Among the topics which may be included are Anglo-French relations, the Near East, the diplomatic history of the Mediterranean basin, the partition of Africa, and Anglo-Russian relations.

Two hours, through one semester.

Omitted in 1929-30.

Mr. Dennis

22. The Pacific and the Far East. The course deals especially with China, Japan, Russia in Asia, and the islands of the Pacific, stressing foreign affairs, government and politics, and economic, industrial and commercial conditions. A careful study is made of the relations, diplomatic and commercial, with the United States.

Three hours, through the year. M. W. F., 9.

Mr. Blakeslee

23a. Central Europe in the 19th Century. This course is concerned chiefly with Germany and Austria-Hungary. After a few introductory lectures the problem of German unity is taken up in detail. The second semester is devoted to the treatment of German supremacy after 1870, to the economic development of the German Empire, and to the national movements as well as to the foreign policy of Austria-Hungary. Special attention is given to the present situation and problems of Central Europe.

Three hours, first semester. T. Th. S., 11. MR. LEE

24b. The History of France and the Latin States of Europe in the Nineteenth Century. The general history of France, Italy and Spain, since the end of the Napoleonic Wars. The course will include the constitutional movement in France and Spain, the story of the Italian Risorgimento, the rise of the second French colonial Empire and the Italian colonial system, the industrialization of France and Italy, and finally the general Mediterranean questions as they were affected by the World War and by the peace settlement. The course presupposes a general knowledge of the history of the nineteenth century such as may be obtained from History 16.

Three hours, second semester. Omitted in 1929-30.

MR. LEE

25a. British India. A survey of European rivalry in India the work of the East India Company, the development of administration by the crown, and the recent developments toward self-government. Economic relations with Europe, military history, the expansion of Indian relations with other parts of the world, immigration, and religious and revolutionary movements are among the topics considered.

Two hours, first semester.

Mr. Dennis

Omitted in 1929-30.

26a. Napoleon Bonaparte. The career of Napoleon, with emphasis upon international relations, including colonial policy, and the influence of Napoleon on world politics.

Two hours, first semester.

Mr. Dennis

Omitted in 1929-30.

27. Latin America. A survey of the history of the various Latin American countries is followed by a consideration of international diplomacy, political problems, systems of government, race questions, economic and industrial conditions. Emphasis is placed upon the relations, both in trade and diplomacy, with the United States. Present problems are stressed, such as the Monroe Doctrine, Pan-Americanism, the Mexican issue, and the American administration of Haiti and Santo Domingo.

Three hours, through the year.

Mr. Blakeslee

Omitted in 1929-30.

28a. The Recent History of the British Empire. An analysis of the British Imperial possessions, emphasizing the developments and problems of the last quarter of a century.

Two hours, first semester. M. W., 11.

Mr. Dennis

29a. Russia and the Near East in the 19th Century. The aim of this course is not only to trace the development of Russia's policy in relation to the Near East Question, but to study the general problem of the decline of the Ottoman Empire and the rise of the Balkan States, as well as the growth of the revolutionary movement in Russia. The course of events since 1914—the Revolution and the Bolshevik régime in Russia, and the recent National revival in Turkey will be particularly emphasized.

Three hours, first semester.

MR. LEE

Omitted in 1929-30.

201. Social and Intellectual History of the United States. This course is designed to study American History from a fresh point of view. Excluding the traditional political approach to American history, it deals with the life of the people—social movements in education, economic life, artistic interests, reform movements, manners, and morals.

Three hours, through the year. T. Th. S., 10. Mr. EATON

211a. The Historical Geography of the United States. The course will consist of a study of the geographic factors in the development of the social, economic, political and institutional life of the American people from colonial times to the present. History 17 or its equivalent will normally be a prerequisite.

Three hours, first semester.

Mr. Hedges

Omitted in 1929-30.

213. Constitutional History of the United States. In this course the Constitution will be treated as a growing organism, responsive to the changing political, social and economic conditions of the country. The course will begin with a discussion of the origins of the American Constitution. There will be careful discussion of the important cases which established basic principles of constitutional law. Important constitutional developments will be correlated with the changes in American life and society which called them into being.

Open to advanced undergraduates and graduates who have had a through college course in general American history.

Three hours, through the year. Omitted in 1929-30.

Mr. Hedges

241a. The United States Since 1865. A synthesis of the political, social and economic forces in the development of the United States since the Civil War. The course will be developed by topics and emphasis will be placed upon interpretation rather than narration. A reasonable familiarity with the period will be assumed. Prerequisite: History 17 or its equivalent.

Three hours, first semester.

Mr. Hedges

Omitted in 1929-30.

242b. American Colonial History to 1776. A study of the European background of American history, the expansion of

European peoples into the New World, the various European Colonial systems, the struggle for Colonial supremacy in North America and the background and causes of the American Revolution. Prerequisite: History 17 or its equivalent.

Three hours, second semester. Omitted in 1929-30.

Mr. Hedges

## 3. PRIMARILY FOR GRADUATE STUDENTS

✓ 31. International Law. A general course adapted for graduate students who will do a large amount of independent reading. The principles of international law are presented and then illustrated by recent and pending international controversies of a legal nature. Lectures, text books, class discussions, and the study of the important cases in standard collections.

Two hours, through the year. M. W., 3. MR. BLAKESLEE

32. Recent International Relations of the United States. A lecture and research course covering the period from the Civil War to the present, with emphasis upon American foreign policies during and since the World War. Especial consideration is given to the history and present status of American relations with Great Britain, Germany and France; the Monroe Doctrine, the Caribbean and the Open Door policies; and the rival doctrines of Isolation and International Co-operation.

Two hours, through the year. Omitted in 1929-30.

Mr. Blakeslee

321. Selected Topics in Recent British History. A research course based upon a study of source material. The fields of investigation will change from year to year.

Two hours, first semester. M. W., 3. Mr. Dennis

331. European International Relations, 1870-1918. A study of the diplomatic history of Europe from the Congress of Berlin to the Peace of Versailles on the basis of the abundant source material recently published. Bismarck's system of alliances and the hegemony of Germany, the development of the Eastern question and the estrangement of Austria and Russia, the Franco-Russian Alliance, the growing rivalry of Germany and England,

the Entente Cordiale and the diplomatic aspect of the World War are all studied.

Two hours, through the year. T. Th., 2.

MR. LEE

332a. Historical Bibliography and Criticism. A study in the methods of historical research and writing. Introductory lectures on the nature and aims of history and examination of the methods in criticizing and interpreting documents. Practice in synthesizing material and a survey of the various schools of historical writing from the time of Herodotus to the present day.

Two hours, first semester.

MR. LEE

Omitted in 1929-30.

333. Topics in the Recent and Contemporary History of Continental Europe. The course will consist chiefly of research by the individual student in problems confronting the European countries at the present day. Such questions as Fascism in Italy, the nationalist problems in the Succession States of the Austrian Empire, the whole organization of the Danube Basin, Republicanism and Democracy in Germany, Bolshevism, and the nationalist movement in Turkey will be taken up as well as some of the more strictly continental international problems, such as reparations and territorial questions.

Two hours, through the year.

Mr. Lee

Omitted in 1929-30.

342. The Influence of Westward Expansion in American Development. The westward movement from colonial times to the passing of the frontier will be discussed in detail. The influence of westward expansion in moulding American character and shaping the peculiar course of American history in the 19th century; the problems arising from the colonization of the west and the reaction of these problems upon national development will be considered. The adjustments made necessary by the passing of the frontier will also be emphasized.

Two hours, through the year.

Mr. Hedges

Omitted in 1929-30.

343. History of the South. This course deals with the political and social history of a geographic section, the Southern States. After a brief survey of the colonial period, it takes

up the Ante-Bellum South for intensive study. In the latter part of the year, the development of the industrial and social life of the New South receives attention.

Two hours, through the year. T. Th., 2. MR. EATON

- 351. Research in the International Relations of the United States.

  Mr. Blakeslee
- 352. Research in the International Relations of the Pacific and the Far East.

  MR. BLAKESLEE
- 353. Research in the History and International Relations of the British Empire.

  MR. DENNIS
- 354. Research in the History and International Relations of Continental Europe.  $M_{R.}$  Lee
- 355. Research in the Political and Economic History of the United States.  $M_R$ . Hedges
  - 356. Research in U. S. History.

MR. EATON

36. Seminar. The students in the Department of History and International Relations meet one evening a week for the study of particular topics in international relations, the consideration of the results of investigation carried on in the Department, and for the review of book and magazine material of especial value. Each member is expected to present reports which then form the basis for general discussion.

Weekly, through the year. Tu., 7.

Messrs. Blakeslee, Dennis, Hedges, Lee and Eaton

# DEPARTMENT OF MATHEMATICS

Professor Williams, Associate Professor Melville

The undergraduate courses are designed to furnish a practical knowledge of fundamental methods of Mathematics that will be useful in the affairs of life, in business, and in the pursuit of the sciences as well as to prepare students for more advanced work in Mathematics.

A major in Mathematics consists of twenty-four semester hours, including courses 12, 13 and 14; a minor consists of eighteen semester hours, including course 12.

Mathematics 10 or 11 is required in the freshman year of all students who expect to elect a major in Division A.

#### MATERIAL FACILITIES

The Library is provided with the more important text-books, treatises, and memoirs on the various branches of Mathematics, as well as the principal journals and transactions of learned societies that are devoted to any considerable extent to Mathematics.

The Department possesses a good collection of models in addition to an adequate instrumental equipment for the work in applied mathematics.

### COURSES IN MATHEMATICS

#### 1. Primarily for Undergraduates

10. Elementary Course. For students who enter with two or more units of Mathematics and do not expect to major in Mathematics or Physics. Students who complete this course with a satisfactory record may enter course 11 at the beginning of the second semester of the following year.

Open to Freshmen.

Three hours, through the year. M. W. F., 8.

Mr. WILLIAMS

11. Introductory Course. For students with major or minor in Mathematics or Physics. Elements of plane Analytic Geometry, including the straight line; plane Trigonometry; elementary theory of equations including Horner's method and De Moivre's Theorem for complex numbers; elements of determinants; and elements of differential and integral calculus. "Unified" course.

Open to Freshmen.

Three hours, through the year. M. W. F., 9.

Mr. MELVILLE

12. Calculus and Analytic Geometry. Differential and integral calculus and Analytic Geometry, a continuation of course 11.

Three hours, through the year. M. W. F., 11.

Mr. WILLIAMS

13. Calculus and Analytic Geometry, Plane Curves and

Sp. Course - Sol. anal. Geom. Mr. Williams
Tn., Th., Sat. 9

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Three Dimensions. A continuation of course 12 with applications to solutions of problems. M. W. F., Tu. Th. S., 9.

Three hours, through the year.

MR. WILLIAMS

14. Differential Equations.

Three hours, through the year. Time to be arranged.

Th. Th. Sat 8 MR. WILLIAMS

15. Descriptive Geometry.

Three hours. First semester. Time arranged.

MR. WILLIAMS

19a. Astronomy. Chiefly descriptive, the object being to make students acquainted with the main features of the heavens, celestial phenomena and laws governing them, and the most important theories that have been devised to explain them.

Alternates with course 110a.

Open to Freshmen.

Three hours, first semester. To be arranged. Mr. Williams Omitted in 1929-30.

110b. Elementary Surveying. Fundamental principles; field work with transit, level, sextant, compass, and chain; map making and map reading.

Alternates with course 19b.

Open to Freshmen who have had trigonometry.

Three hours, second semester.

Mr. WILLIAMS

Omitted in 1929-30.

113a. Mathematical Theory of Statistics. Introductory course for graduate students in Geography, Biology, Economics and Psychology.

Three hours, first semester.

MR. WILLIAMS

Omitted in 1929-30.

# DEPARTMENT OF PHYSICS

PROFESSOR GODDARD, ASSISTANT PROFESSOR ROOPE

The aim of the undergraduate work of this department is to give to students a knowledge of the principles which are at the basis of modern applications of science to human affairs. It is deemed equally desirable to impart a knowledge of the methods and results of modern physics which are influencing so profoundly our fundamental concepts, and without which no one may hope to be considered liberally educated. The Department aims also to fit students in the minimum of time with professional preparations for Chemistry, Meteorology and allied sciences, Medicine, Engineering and Science teaching, as well as for professional or graduate work in Physics.

The Department will be glad to discuss, with those desiring to follow Physics as a profession, the opportunities in teaching and in industrial laboratories, and to arrange programs of courses best suited to individual requirements.

For students majoring in Physics, the following sequence of courses is recommended:

			Prerequisites	Prerequisites
Course		Year	Physics	Mathematics
11		First	None	None
14		Second	11	None
15		Second	11	12
13		Third	11	11
22 or	23	Third	11	12
23 or	22	Fourth	11	12
28		Fourth	11	12

Sequences for students not majoring in Physics are as follows: Physics as a minor: Courses 11, 14, and one or more of 15, 17, 22, 23, 28.

Pre-medical course: Course 11.

Major in Chemistry: Courses 11, 14, and 15, 23, or 28.

Major in Biology: Courses 11, 14, and 28.

Major in Meteorology and Climatology: Courses 11, 14, and 15.

#### GRADUATE WORK

The Department is prepared to give work leading to the degree of Master of Arts in Physics, for those planning to teach Physics, to undertake research work in industrial and government laboratories, and also as a preparation for those planning to take more advanced degrees. For this work, emphasis is placed not only upon Mathematical Physics, but also upon the undertaking of an original research problem, for which work the laboratories and library provide unusual facilities.

In case the minor for graduate students, is in Mathematics,

courses may be arranged with the Mathematics Department, or a special course on applied Mathematics may be taken under the Physics Department, based on Mellor's Higher Mathematics for Students of Chemistry and Physics.

A course in Meteorology through the year is given in the Department of Geography. More advanced work in Physics of the Air may be arranged through the cooperation of the departments of Physics and Geography.

## COURSES IN PHYSICS

### 1. Primarily for Undergraduates

✓ 11. General Physics. This course gives a general knowledge of the principles of Physics, as applied in industry and in the household, and also of the newer developments of Physics, including the elementary theory of radio, Roentgen rays, and the electrical basis of matter. It is desirable for all students intending to specialize in Chemistry, Biology, Mathematics, Law, or Medicine, and is the natural starting point for those desiring to do further work in Physics. It may also be taken as a general science course by those not majoring in science. During the first semester, the work covers mechanics and heat, and during the second semester, electricity and magnetism, wave motion, sound, and light. The text-book is Duff's General Physics. Mathematics 11 is advised, but not required. Since this course consists of three lectures and recitations, and one laboratory period per week, it is generally accepted by medical schools as fulfilling the requirement of eight semester hours in Physics. Indivisible course.

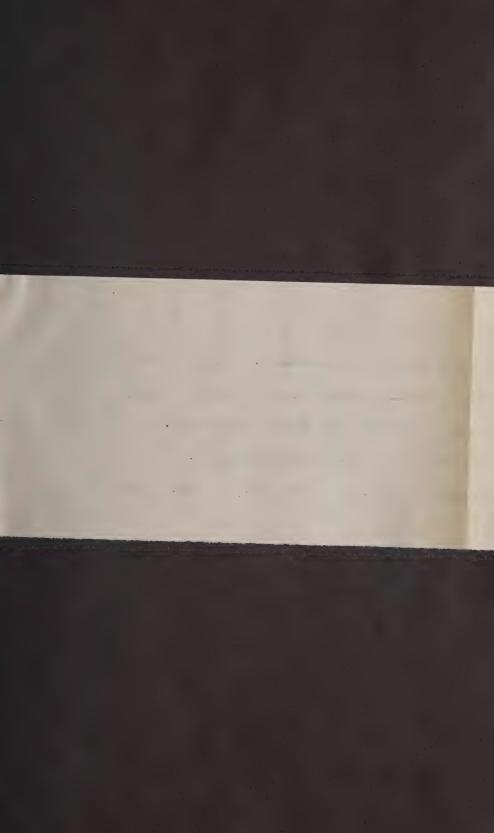
Open to Freshmen.

Three hours, through the year. M. W. F., 10; W. or Th., 2.

MR. GODDARD

- of the various branches of Physics. Prerequisite: Physics 11.

  Three hours, through the year. M. W. F., 9. Mr. Goddard
- 14. Mechanical and Electrical Measurements. During the first semester this course consists of electrical measurements, including inductance, capacity, and conduction, by various methods, together with advanced problems in optics. In the second semester the course consists of laboratory exercises in dynamics, including



PHYSICS 16. Advanced Physical Measurements. A course involving special laboratory problems, chiefly in the field of X-rays, photography, thermionic emission and photo-electricity.

Prerequisites, Physics 14 and 15. Divisible course.

Three hours, through the year.

Tu., Th., 2 Mr. Roope

kinetics of translation, angular momentum, the gyroscope, and elastic properties of materials, followed by advanced problems in heat.

Three hours, through the year. Tu. W. F., 2. Mr. ROOPE

15. Thermodynamics and Optics. The work of the first semester is in thermodynamics, including the thermal properties of the solid, liquid, and gaseous states, and the theory of heat engines. The second semester covers geometrical and physical optics, and includes work in practical photography. The respective text-books are *Heat for Advanced Students*, Edser, and *A Treatise on Light*, Houstoun. Prerequisite, Physics 11.

Three hours, through the year. M. W. F., 9. Mr. ROOPE

2. For Graduate Students and Advanced Undergraduates

22. Theoretical Mechanics. This course is a systematic presentation of theory by lectures and recitations together with the solution of problems. The work includes statics, kinematics and dynamics of translation and rotation of bodies, mechanical oscillations, and dimensional equations. The text-book is Seely and Ensign, Analytical Mechanics for Engineers. Mathematics 12 must be taken before or with this course.

Three hours, through the year. M. W. F., 8.
To be omitted in 1930-31.

MR. GODDARD

23. Theory of Electricity and Magnetism. This course treats the general principles of dynamo and motor design, high-frequency phenomena as involved in radio, radio-activity, and the electron theory of matter. The course is of particular importance to those intending to specialize in Physics, Mathematics, or Engineering. The prerequisites are Physics 11 and Mathematics 11; Mathematics 12 must be taken before or with this course. A knowledge of differential equations is advised. The text-book is Starling's Electricity and Magnetism.

Three hours, through the year. M. W. F., 8.
Omitted in 1929-30.
MR. GODDARD

27. Preliminary Mathematical Physics. This course involves reading on specially assigned topics. The object is to pro-

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vide a comprehensive background for advanced work in physics. Open only to undergraduate majors in physics, of high standing. *Three hours*, through the year. M. W. F., 11. Mr. Goddard

28a. Laboratory Methods. A course in the methods of preparing and presenting the results of experiments, involving precision of measurement, method of least squares, mean value, logarithmic plotting, derivation of formulae from experimental data, mechanical integration and differentiation, vector analysis, and the preparation by each student of a report on at least one assigned topic that involves reference tables and literature. This course is recommended for students specializing in any of the sciences which involve laboratory work. Prerequisite, Physics 11.

Three hours, first semester. M. W. F., 10. MR. ROOPE

34. Advanced Mechanics. This course includes vector analysis, the equations of Lagrange and Hamilton, the methods of Hamilton and Jacoby, and Newtonian and logarithmic potential functions, together with a discussion of applications to various branches of Physics. The motion of rigid bodies, the theory of moving axes, and the theory and application of the gyroscope are also treated.

Three hours, through the year. Tu. Th. F., 5. MR. GODDARD

V 35. Advanced Electricity and Magnetism. The theory of electricity and magnetism is treated from the classical and the modern viewpoints, and includes the theory of the electro-magnetic field, generalized impedance, electric waves, and recent developments.

Three hours, through the year. M. Tu. F., 3. MR. GODDARD

7 36. The Partial Differential Equations of Mathematical Physics. Included in this course are vector analysis, the methods of Cauchy and Fourier, developments in series, the methods of Green and Riemann-Volterra, normal functions, and integral equations.

Two hours, through the year.

Mr. Goddard

737. Research Work in Physics. Research work on an original problem in Physics. Required of candidates for the Master's degree.
MR. GODDARD

310. Seminar and Research Conference. A seminar on modern theories of Physics, together with conferences on current literature and on the researches in progress.

Once a week, through the year. Tu., 4-6.

THE STAFF OF THE DEPARTMENT

# DEPARTMENT OF PSYCHOLOGY\*

PROFESSOR MURCHISON, PROFESSOR HUNTER, PROFESSOR NAFE,\*\*

ASSOCIATE PROFESSOR JONES

## LABORATORY FACILITIES

The Psychological Laboratories occupy thirty-two rooms on the third floor of the Main Building of the University. These laboratories were established by G. Stanley Hall immediately after the founding of Clark University, and constituted the first adequately appointed and complete psychological laboratories in America. These laboratories, under the direction of Edmund C. Sanford and John W. Baird, increased rapidly in size and in research possibilities. The collection is rich in historical apparatus and is especially complete in the better types of chronoscopes, the Vernier chronoscope being invented and developed here by Edmund C. Sanford. The laboratories have an annual appropriation sufficient to provide for the purchase and manufacture of any apparatus that may be required for general and special investigations. The workshop contains an excellent equipment for the manufacture and repair of apparatus. The animal laboratory is easily one of the largest and best equipped in the country.

### LIBRARY FACILITIES

The library facilities for research in Psychology, Anthropology and Education are exceptional both in range and in quality. Approximately one-half of the entire Clark University Library consists of reference works in these fields. All the important psychological journals in the world come regularly to the library.

Fellowships, Scholarships and Assistantships
In addition to assistantships in psychology, a generous number

<sup>\*</sup>The Department of Education and School Hygiene was merged with the Department of Psychology at the beginning of the year 1926-27. \*\*Absent on leave, second semester, 1929-30.

of scholarships and fellowships are available from year to year ranging in value from \$150 to \$600.

#### UNDERGRADUATE WORK

The Department offers work in general elementary psychology, elementary experimental psychology, elementary educational psychology, and will offer such additional courses to undergraduates as will make possible a major in psychology.

## GRADUATE WORK

Admission. Admission to graduate work in Psychology, as in the case of other departments, is subject to the approval of the Graduate Board. However, the Graduate Board does not admit without the approval of the Department. Admission is open to those individuals who have been graduated from accredited institutions, and whose academic record gives promise of the successful conduct of graduate work. Admission is not open to those who have never had training in elementary Psychology.

Courses. Each graduate student in full residence in the University is required to carry a full schedule of courses, such courses to be selected with the advice of the instructors concerned and with the approval of the Department. The courses in the Department are planned so as to give each student working for an advanced degree such necessary training as courses can give.

The Master's Degree. The general university requirements for the master's degree are explained elsewhere in the catalogue. The Department will supplement these requirements in individual cases where it seems wise to do so. Students hoping to become candidates for the master's degree, such degree to be conferred at some definite future time, should discuss the matter without delay.

The Doctor's Degree. Only superior graduate students are encouraged to become candidates for the doctor's degree. Not only is such a candidate required to obtain exact information concerning all the significant psychological methods of research, but he is also required to demonstrate actual ability to use one or more of these methods in original research on important problems. The thesis problem should be agreed upon before the end of the second year of residence, and should be the chief occupation of the stu-

dent during the final year in residence. A student will be unable to receive his degree in less than three years unless he comes credited with graduate work elsewhere.

Theses. In addition to the general university requirements concerning the preparation and delivery of theses, the Department has a supplementary requirement of an additional copy of each thesis, to remain on file in the Department.

## COURSES IN PSYCHOLOGY

## 1. PRIMARILY FOR UNDERGRADUATES

11a. General Elementary Psychology. This course is an introductory course in elementary psychology, and is prerequisite for all the following courses in the Department. Tex-book, lectures and collateral reading.

Three hours, first semester. M. W. F., 2. Mr. NAFE Open to Freshmen.

12b. Experimental Psychology. This is more than an elementary course, Psychology 11a being prerequisite. The entire resources of the laboratory are available for this course. The students will be made familiar, by use, with the apparatus used in psychological investigations. This course or its equivalent is prerequisite to 21a, 22b, 23a and 24b and to all graduate work for advanced degrees.

Three hours, through the year. Tu. Th., 2. MR. NAFE Open to Freshmen.

14a. Elementary Educational Psychology. A study of the dynamics behind conduct and of the interaction between these "drives" and school processes. Attention will be given to the nature versus nurture controversy. The bearing of factors of personality on school and after-school success will receive some attention.

In addition to the scheduled meetings, a third weekly meeting is to be arranged.

Three hours, first semester. Tu. Th., 12. Mr. Jones

15b. Individual Differences and Exceptional Children. A review will be given of the latest contributions to the problem of individual differences. Study will be made of various current

policies in dealing with this problem in public and private schools. Some attention will be devoted to exceptionally bright and exceptionally dull children, and various methods, past and present, employed by schools in teaching such children will be examined.

In addition to the two scheduled meetings, a third weekly meeting is to be arranged.

Three hours, second semester. Tu. Th., 11. Additional hour to be arranged.

Mr. Jones

16a. Principles of Education. School's responsibilities in preserving the race heritage; education past and present as related to health, family life, economic life, recreation and religious life; functions and policies of the elementary school, the secondary school, and the college in view of the present social, political, and economic conditions of the United States; American education and world citizenship.

Three hours, first semester. M. W. F., 10. MR. Jones 17b. Philosophical and Historical Foundations of Modern Education. By assigned readings, reports, and discussions some of the concepts underlying modern educational policies and practices will be studied. By way of illustration, frequent comparisons will be made between the present educational aims and procedures in the New World and those in some of the countries of the Near East.

Three hours, second semester. M. W. F., 10. MR. Jones 18b. Fields of Psychology. An introduction to the different fields of psychology, including Experimental, Social, Child, Abnormal, Applied and other branches of the science. Also an introduction to statistical methods. Open to students who have completed Psychology 11a. Number limited.

Three hours, second semester. Tu. Th. S., 10. 11.

Mr. Hunter MR. NATE AND STUDENT ASSISTANTS

2. For Graduate Students and Advanced Undergraduates

200a. Systematic Psychology. This course together with 201b, 203a, 204b offers a two-year course in which the semester units are separable. It is a systematic study of the work that has been done in Experimental Psychology. 200a deals with vision and audition.

Three hours, first semester. M. W. F., 9.

201b. Systematic Psychology. Smell, taste and touch.

Three hours, second semester. M. W. F., 9. Mr. NAFE Alternate years.

203a. Systematic Psychology. Emotion, attention, perception, and idea in their systematic aspects.

Three hours, first semester. M. W. F., 9. Mr. NAFE Alternate years.

204b. Systematic Psychology. The position of association, memory, imagination, thought, action and volition in systems of psychology, especially in the structural system. The treatment of these subjects is historical as well as systematic. Little attention is given to the application of principles.

Three hours, second semester. M. W. F., 9. Mr. NAFE Omitted in 1928-29 and in alternate years.

206a. Animal Behavior. A study of animal behavior with particular reference to the vertebrates. Emphasis will be placed upon the topics of instinct, habit formation, sensory processes, and the higher adaptive forms of behavior. The course offers an introduction to the current theory of behaviorism. Laboratory work, by appointment, will occupy one-third of the course.

Three hours, first semester. M. W. F., 11. MR. HUNTER 207b. The Learning Process. A critical and experimental study of the chief problems of learning and memory. One-third of the course will be devoted to laboratory work at hours to be

arranged.

Three hours, second semester. M. W. F., 11. MR. HUNTER

#### 3. PRIMARILY FOR GRADUATE STUDENTS

**301a.** Seminar in the Principles of Psychology. A comparative study of systems of psychology with particular reference to structuralism, functionalism, and behaviorism.

Two hours, first semester. Tu., 11. Mr. Hunter

302a. Seminar in the Principles of Psychology. A continuation of the first semester Seminar, but not necessarily preceded by it. The topics for discussion will be drawn from the whole field of theoretical psychology. Students may enroll in this seminar for several successive years.

Two hours, second semester. Tu. 11. Mr. Hunter

304. Journal Club. To be devoted to the study of selected topics in current psychological literature. All students *majoring* in Psychology for advanced degrees are members of the Journal Club.

Through the year. W., 4.

Messrs. Murchison, Hunter, Nafe and Jones

- 305. Research. All students majoring in the Department of Psychology for advanced degrees will be expected to undertake a suitable research problem under the direction of Messrs. Murchison, Hunter, Nafe or Jones.
- 310. Child Behavior. This course will consist of a critical examination of the literature bearing on the experimental investigation of child behavior.

Two hours, through the year. F., 4. MR. MURCHISON

311. Social Psychology. A systematic survey of the literature of social psychology, with special emphasis on such literature as is available concerning the psychology of society.

Two hours, through the year. Th., 4. MR. MURCHISON

- 312. Advanced Experimental Psychology. Open only on consultation. The course consists of minor problems. The student will have an opportunity to demonstrate his laboratory ingenuity and technique.

  MR. NAFE
- 313a. Advanced Educational Psychology: Techniques of Quantitative Experimentation in Education. The purpose of the course will be to give practice in the use of some of the most valuable statistical methods. Among the topics that will receive attention are: variability; reliability; correlation, including contingency coefficients and biserial r; partial and multiple correlation; line of relation; correlation ratio; regression equations; and methods of weighting. Students will be invited to submit problems arising in their own experimentation, and a great deal of the practice on the techniques will come through solutions to these real problems. In the class periods attention will be given not only to statistical measures but also to methods of setting up experiments.

Two hours, first semester. Tu., 4.

trends in the measurement of intelligence and school achievement during the last five years will be discussed briefly under the following headings: measurement and aims in education; measurement and methods in teaching; measurement in determining school policies; measurement in classification, diagnosis and prognosis; reliability and validity in measurement. Much emphasis will be placed on the following: improvement of marking systems; making of local objective tests; process of standardization of examinations; methods whereby teachers may measure their own efficiency in instruction; techniques of experimentation available for teachers, principals and directors of bureaus of educational research; methods of conducting school surveys and of interpreting results; measurement in character and health education; unmeasurable factors in education.

Two hours, second semester. Tu., 4.

Mr. Jones

#### DEPARTMENT OF ROMANCE LANGUAGES

PROFESSOR CHURCHMAN, ASSISTANT PROFESSOR ATWOOD

See the statement of the general requirement in foreign language, page 47, for all candidates for the A.B. degree.

As now organized, the French courses in this Department are planned with the following ends in view: French 11 and 12 are the basic language courses, in which it is the purpose to develop reading ability, with at least a beginning of writing and speaking; when possible a student should take the full twelve hours of this sort of work. To the student who has completed 12, courses 13 and 14 offer an option between a continuance of general language work and a course limited to translation and literature; both may of course be taken. Those who wish to continue the study of literature after taking 14, will take the "General View," Course 114, which may be followed by the courses in which the literature of the 17th, 18th, 19th and 20th centuries is studied intensively (courses 15, 19, 16, 119); maturer students with the proper background may take 114 without having had 14, or may go directly from 14 to the advanced courses. Those interested primarily in the study of the language will take 13 and then 17, the latter being especially valuable for teachers of French.

A major in Romance Languages consists of at least twenty-four semester hours selected from the courses described below; but not more than twelve semester hours in elementary courses (French 11 and Spanish 11), may be counted in a major.

A typical *major* for a student who has had three years of French in the high school would include courses 13, 14, 114 and one of the intensive courses in literature (15, 19, 16, 119) or the Advanced Composition course (17). Those who have had less French would begin with French 12. A beginner would take 11, 12, 13 or 14 (or both), and 114. The attention of students intending to *major* in Romance Languages is called to the statement concerning the required courses in Greek or Latin.

#### COURSES IN FRENCH

#### 1. PRIMARILY FOR UNDERGRADUATES

11. For Beginners. Grammar, pronunciation, oral work, and composition, based on Churchman's Phonetic Gateway to French and Fraser and Squair's Elementary French Grammar. For a proper orientation in aural-oral work, the phonetic approach is used, and oral exercises are utilized throughout as a basis for speaking ability and for general language drill, but the main purpose of the course is to develop reading ability, Greenberg's French Silent Reader and the Smith-Greenleaf French Reader being used side by side with the purpose of developing both the cursory and the intensive types of reading. The four-phase method is used throughout, the emphasis being first upon reading material, secondly upon material to be understood by the ear, thirdly upon constructive work in writing, and finally upon oral exercises. Indivisible course.

Open to Freshmen.

Three hours, through the year. M. W. F., 10.

Mr. Churchman

✓ 12. Intermediate. Reading of modern French, with grammar, composition, pronunciation, and oral exercises. Course 12 is a continuation of course 11, and is also open to students who have had two years of high school French. Grammar review and composition from Malakis Intermediate French Functional Grammar and Conversation. Reading from such works as Halévy's

un Mariage d'amour, Hugo's les Misérables, Labiche and Martin's le Voyage de M. Perrichon, France's le Crime de Sylvestre Bonnard.

Open to Freshmen.

Three hours, through the year. Tu. Th. S., 8. MR. ATWOOD

13. Advanced French. This course is designed to continue and supplement the language work of course 12; it is also open to students who have had three years of high school French. Since the parallel course (14) offers ample opportunity for the development of reading ability, the emphasis in this course is placed upon the spoken and written language. The major part of the early work is devoted to a careful study of pronunciation on a phonetic basis (Churchman and Hacker; First Phonetic French Course), and to a very rapid review of the elements of grammar in application to oral exercises. Immediately thereafter comes a survey of grammar and syntax in Fraser and Squair's French Grammar. Oral work in everyday French is continued through the year, with Ballard's Beginners' French as the basic text.

Open to Freshmen.

Three hours, through the year. Tu. Th. S., 12.

Mr. Churchman

Readings in French Literature. This course is an initiation into French literature within the scope of students still without much literary background and in need of further training in accurate reading. It is normally open to students who have had three years of French in the high school or French 12 in college, and is the natural course with which to begin the study of literature; mature students, however, who have some literary background and have done exceptional work in French 12 or 13, may take 114 without having had 14. The work of this course consists of the careful translation of selected masterpieces (entire), beginning with some recent author like Anatole France and working backward to the Classical authors of the 17th century. The object of the work will be to increase the student's capacity for intelligent reading of difficult French, to give him a first-hand acquaintance with certain literary masterpieces, and to lay a foundation for literary appreciation and criticism, with a clear grasp of a few of the essential facts of literary history. Parts of G. L. Strachey's *Landmarks in French Literature* are studied, and a brief outline of all of French literature is considered.

Open to Freshmen.

Three hours, through the year. Tu. Th. Sat., 12.

MR. ATWOOD

114. General View of French Literature. This course would ordinarily be preceded by French 14, but it is open also to students with good literary background who have been in the upper quarter of French 12, or the upper half of French 13, or who have had at least four years of French in the high school. Its aim is to give a unified account of the development of French literature from the beginning to the present time. texts are read in translation or in modernized French versions. Of the material since 1600, some is carefully translated, and some read for the meaning only. The central texts are Vreeland and Michaud's Anthology of French Prose and Poetry and Harper's French Anthology (Sirich and Barton). The manual of literature used is French Literature in Outline by Churchman and Young; material from G. L. Strachev's Landmarks in French Literature is also considered.

M., 3; W. F., 12. Mr. Churchman Given in 1929-30 and in alternate years thereafter.

Note. For admission to French 15, 16, 19, and 119, it is ordinarily expected that a student will have passed French 114, but students who have stood in the upper half of 14, may take the advanced courses in the years when 114 is not offered.

15. Literature of the Seventeenth Century. A large amount of reading from the works of Corneille, Racine, Molière, Boileau, La Fontaine, Descartes, Pascal, La Rochefoucauld, Bossuet, La Bruyère, Mme. de Sévigné. Selections from the minor authors contained in An Anthology of Seventeenth Century French Literature (Princeton University Press). Historical and critical survey of the literature of the period, based upon Abry, Audic and Crouzet's Histoire illustrée de la littérature française and the works of other critics. The main purpose of this course is to give the student a first-hand knowledge of the masterpieces of French classi-

cal literary history of the period. Few lectures, and a minimum of translation, the time in the class-room being devoted to discussion and reading in the original. For conditions of admission, see note above.

Three hours, through the year. M., 3; W. F., 12.

Mr. Atwood

Omitted in 1929-30.

critical survey, with wide reading from the most significant authors of the century up to the year 1890. The spirit, method, and plan of the work are similar to those of course 15. After a discussion of the later eighteenth century and of the work of Chateaubriand and Madame de Staël comes the intensive study of the literary masterpieces of the nineteenth century, especially lyric poetry, drama, and the novel, accompanied by a discussion of the facts and comment contained in the Abry, Audic and Crouzet Histoire illustrée de la littérature française and in the writings of other critics. Minor writers as found in the Vreeland-Michaud Anthology. Few if any lectures, and no translation. For conditions of admission to this course see note above.

Three hours, through the year. M., 3; W. F., 12.

Mr. Churchman

Omitted 1929-30.

17. Phonetics, Advanced Composition and Oral Work. Designed to provide teachers and other advanced students with a ready command of the spoken and written language. Review of the theory and practice of pronunciation upon a phonetic basis. Systematic study of grammar and syntax through a hasty survey of R. T. Holbrook's Living French, a thorough mastery of E. C. Armstrong's Syntax of the French Verb, and special study of selected topics by means of references to several standard authorities. Oral work of various sorts. Reports on important longer works in the field of phonetics. Open to students who have passed course 13 with credit, or who have done work equivalent in kind and amount.

Three hours, through the year. M., 3; M. F., 12. Omitted in 1929-30.

Mr. Churchman

19. Literature of the Eighteenth Century. Historical and critical survey, with wide reading from the most significant authors of the century. Essential texts are Schinz' Eighteenth Century French Readings and Bremer-Goodyear's Eighteenth Century French Plays. Especial stress will be placed upon the social background and the importance of the century in the development of modern ideas. Constant use will be made of such manuals as Abry, Audic and Crouzet's Histoire illustrée de la littérature française. The spirit, method, and plan of the work are similar to those of course 15. Few if any lectures, and a minimum of translation. For conditions of admission see note above.

Three hours, through the year. M., 3; W. F., 12.
Omitted in 1929-30. Mr. Churchman

119. Contemporary French Literature. A study of fiction, poetry and drama since about 1890, beginning with Anatole France, Bourget, and Rostand, and taking up representative works by modern authors since. Representative Contemporary French Lyrics (Delpit). Cunliffe and De Bacourt, French Literature During the Last Half Century, with reference to Lalou, Bédier-Hazard, etc. Reading and discussions; few if any lectures.

Three hours, through the year. M., 3; W. F., 12.
Omitted in 1929-30.
MR. CHURCHMAN

#### COURSES IN SPANISH

#### 1. PRIMARILY FOR UNDERGRADUATES

11. Elementary Course. Barlow Fundamentals of Spanish. Translation of simple prose. The first purpose of the course is to develop the ability to read, but a liberal use is made of oral and written exercises. Emphasis is divided between South America and Spain. Not divisible.

Open to Freshmen.

Three hours, through the year. M. W. F., 10. Mr. Atwood

12. Intermediate Course. Combination of readings from Spanish literature with more advanced study of the language,

oral and written. Review of the language in Crawford's First Book in Spanish. Reading of representative masterpieces, e.g., Don Quixote (selections), one modern novel, one play, short stories. Open to students who have passed course 11, or who have had two years of Spanish in the high school.

Open to Freshmen.

Three hours, through the year. Tu. Th. S., 9. MR. ATWOOD

#### DEGREES CONFERRED

In the Calendar Year 1929

BACHELOR OF ARTS (with high honor) David Shemman BAC "as of" 6-17-29 BAC Hobart Walker Adams Hartwell McClellan Turner Everett Elven Backlin Hughes Albert Joseph Kaneb Melvin Dow Kennedy (with honor) Irving Emerson Bailey Leonard Joseph Belanger Isadore Chester Bland Arnold Herman Klingele George Frederick Kneller (with honor) Reginald Arthur Briggs Abraham Kremer **Tacob** Britton Stuart Wellington Lippincott (with honor) Richard Wyman Butler Frank Nelson Lukens Fred Paul Luvisi (with honor) (with honor) Lawrence Cutler Mansur Albert Sigfrid Carlson (with honor) (with honor) Kingsland Adams Coffyn Fred Albert Mettler Randle Edwin Dahl Donald Alonzo Needham William Thomas Deeks William Arthur Niman Bernard Francis Duesel John Arthur O'Neill Albert LeRoy Farrell Morris Pollock Francis Lawrence Fryer Donald James Geary Roland Edmond Gervais James Quinn Ralph Raphael Andrew Theodore Ringoen Milton Harold Goldberg Allan Charles Scott (with honor) Raymond Philip Shanahan Nathan Goldman Sydney Grace (with honor) David Silverman James Charles Haberman Robert Irving Slate Wayne Everett Harrington Benjamin Smith Raymond Porter Hartman Walter Hastings, Jr. Arthur Dexter Hubbard Walter Grant Stewart Edward Matthew Ten Broeck Adrian Armand Gaucher Milton Kibbe Welson Leroy Clifford Zumpfe
Abraham Lavett (with high honor)
BACHELOR OF EDUCATION

August 8, 1929

Elizabeth Gertrude Curley Kathrine Mary Daley Wilhelmina Gerard Marion Veronica Harris Hilda Victoria Johnson

"As of "6-17-29

Margaret Veronica Kirby Estella Matteson Walter Richard Pasanen Arvella Payne Ellen Frances Regan

Anthony Joseph West

# CLARK UNIVERSITY

# The Fortieth Annual Commencement

JUNE 16 1930



## Order of Exercises

Processional: Athalia March Mendelssohn

Overture: Morning Noon and Night

THE JOSEPH TRUDA ORCHESTRA

Invocation The Reverend Thomas Sherrard Roy

Pastor of the First Baptist Church

Commencement Address Hon. Herbert Parker

The President's Annual Statement

The Announcement of the Prentiss Hoyt Prize for Poetry and the Edmund C Sanford Scholarship

Rhapsody in B Minor Brahms

SAMUEL LEVENSON '30

Liebestraum

HILDRETH TURNER WINTON '30

The Conferring of Degrees

Benediction

Recessional: Stars and Stripes Sousa

The audience will kindly remain during the recessional

all digues awarded as funted except Mousen Shape

#### CLARK UNIVERSITY

### Final Assembly of the 1930 Summer School

August 7, 1930

Invocation

Greeting

Douglas C. Ridgley Director of the Summer School

Address

WILLIAM S. MITCHELL, D.D. Pastor of Wesley Methodist Episcopal Church

"THE TYRANNY OF THE CONTEMPORANEOUS"

Conferring of Degrees

FRANCIS H. DEWEY Vice President of the Board of Trustees

#### Bachelor of Education

Mary Agnes Bingham George Sibley Corfield Margaret Helen Dewar Joseph Diamond Mary Teresa Donnelly \*Catherine Agnes Doyle week Margaret Veronica Gray Donald S. Griswold Elizabeth Herr

Mary Frances Kane Alice Elizabeth Kelley Anna Agnes Kinniery Margaret Isabelle McAuliffe Mary Day McMurray Katherine Cecilia Mulcahy Anna Genevieve Eaves Simmons Mary Veronica Sullivan Catherine Teresa Traynor Edith Viola Grove

#### Master of Arts

Theodore Eugene Dumas Honora Eleanor Kinniery \*Lawrence Cutler Mansur

Leonard Raymond Schneider \*Thelma Lenora Snape Frederick Robert Strasburg as of "any 7, 1938 - works comple in Supt 1938.

Agnes W. Hines

\*Degree to be conferred later on completion of record. Lugl alla woo 1930

> voils not completed 10/2/30

THE THE

adram a Garden, words completed 4/0/20- AB as of 14/17/9 9

#### Candidates for the Degree of Bachelor of Arts

William Perry Barber
Edward William Brady
Armand Joseph Brissett, Jr Charles Lester Peltier
Thomas Edison Christensen Wicker Victor Ellsworth Pitkin
Victor Ellsworth Pitkin Paul Merrick Crowlev Harry Davis Albert Joseph Dobie Robert Andrew Dolan Chester Gabriel Eliason Oscar Feinsilver Harry Foxhall Kenneth Clarke Harding George Higginbottom Walter Hollis David Harold Jacobs Philip Warren Kenworthy Ivan Iliev Kutukchieff Charles Adrian Larkin Samuel Levenson Robert Levine
Aaron Levitz
Richard Ralph Mahony
William Everett Marchant Arthur Emil Mattson

Francis Arnold Read Harry Rogers
Joseph Lambert Roy
Carl Elmer Schonning
Frank David Slade
Samuel Sleeper Silvanus Hayward Snell Harry David Solomon Thomas Earle Southwick Charles Clinton Spaulding Harry Prouty Stedman Frank Paul Stevens Sydney Reynolds Ussher Samuel Milton Whitman Theodore Alexis Wiel William Larkin Williams Frank Edward Wilson Frederick Winter Hildreth Turner Winton Everett Job Wordell

\*Additional work to be completed - degree ruf awarded 6/16/30

#### WITH HONOR

Michael Aloysius Donahue Edwin Niles Johnson

Frederick Marean Murdock John Howe Scott

#### WITH HIGH HONOR

Michael Abelsky

Robert Ira Dickey

WITH HIGHEST HONOR Albert Clarence Erickson

#### Candidates for the Degree of Master of Arts

History

Chemistry Reginald Arthur Briggs Bernard Francis Duesel Fred Paul Luvisi Walter Grant Stewart

Economics

Freeman Kendrick Hackett George Henry Haines Raymond Charles Thomas Harry Everett Turbeville

Geography

Katharine Bishop Clarke Franklin Carl Erickson Elizabeth Emery Gregory Harry Kennedy Hutter Theresa Frances McQueeny Vina Elizabeth Spence Anthony Joseph West Rose Zeller

Jessie Ashworth George Louis Blackwell Isadore Chester Bland Lucy Elizabeth Chapin Victor Raymond Edman Sydney Grace Gerald Meringer Kendall Melvin Dow Kennedy Lionel Hassell Laing Evelyn Charlotte Lundgren Katharine Allen Powell David Sherman

Physics

Lillian Sophia Blomstrom Thomas Edward Boyle
Lawrence Cutler Mansus

Psychology Nathan Goldman Dorothy Mildred Olson

all deques awarded as printed ciest as noted. What

#### Candidates for Degree of Doctor of Philosophy

Geography
Wallace Richards Atwood
Jacob Herbert Burgy
Meredith Frederic Burrill
Floyd Franklin Cunningham
Bert Hudgins

History Ernest Ralph Perkins Psychology

Mason Nelson Crook Wayne Dennis

Louis Wanger Gellermann Clarence Henry Graham

Robert Leeper

Norman Leslie Munn

#### Honorary Degrees

Master of Education

Joseph Stevens Kadesch

Presented by
Dr Homer P Little, Dean
of the College

Doctor of Science

ARNOLD LUCIUS GESELL

Presented by
Dr Carl Murchison, Chairman Department of Psychology

Doctor of Laws

PRESIDENT WILLIAM LOWE BRYAN Indiana University

Presented by
Dr William H Burnham,
Professor of Education and
School Hygiene (Emeritus)

PRESIDENT RALPH EARLE
Worcester Polytechnic Institute

Presented by
Dr Philip H Churchman,
Chairman Department of
Romance Languages

#### **Annual Collegiate Honors**

**SENIORS** 

First Honors

Albert Clarence Erickson

Edward William Brady Paul Merrick Crowley David Harold Jacobs Edwin Niles Johnson Samuel Levenson

Michael Abelsky

Second Honors
Frederick Marean Murdock
Francis Arnold Read
John Howe Scott
Samuel Sleeper
Samuel Milton Whitman

JUNIORS

First Honors

Louis Edward Shapiro

Second Honors

Alton Rudolph Anderson Wilfred Rutman Arick

Stephen Thomas Riley

Chauncey Aniret Eisner Elwin Holbrook Twombly

**SOPHOMORES** 

Second Honors

Axel Verner Holmgren

Arthur William Back

Herman Beigelman

Maxwell Philip Masterman

**FRESHMEN** 

Second Honors

Herbert William Cohen Ilmari Fritiof Salminen

SIXTH ANNUAL AWARD OF THE PRENTISS HOYT PRIZE IN POETRY

Philip W Lukens '32 for the poem "Sphinx" Honorable Mention to Wilfred Arick '31 for "A Vulcan Idyll"

> EDMUND C SANFORD SCHOLARSHIP Elwin Holbrook Twombly '31

#### MASTER OF ARTS

Allen Eugene Andress
Eula Valina Avery
Jose Lopez Baralt
Harold Everett Conrad
Everett William Coty
Joseph Edward Cove
Charles Templeton Dix
Emily Dymond
Edith May Fitton
Morris Eugene Garnsey
James Glasgow
Josephine Ellen Healey
Paul Huffington

Lillian Jefts
Lois Rebecca Keller
Lester Cline Lindley
Neva McDavitt
Margaret Means
Ernest Gustaf Peterson
Albert James Schwieger
Yetta Silverman
John Michael Spadola
Paul Richard Swan
Ella Lydia Vinal
Alfred Harvey Wheeler
Stanley Hartshorn Whiting

Frank Woodman Wilder

#### DOCTOR OF PHILOSOPHY

Carleton Payne Barnes Ruth Emily Baugh Hartley William Cross P. Harry Ewert Otis Willard Freeman Charles Gooze Luberta Marie Harden Dorothea Elizabeth Johannsen Clarence Eugene Koeppe Albert LaFleur Rob Roy MacGregor John Lorence Page Moina Martha Prator Eleanor Tupper

#### DOCTOR OF LETTERS

(Honorary) Paul W. Claudel

#### SUMMARY

	~ ~		
Bachelor of Arts	52	Doctor of Philosophy	14
Bachelor 🚱 Education	10	Doctor of Letters	. 1
Master of Arts	27		

#### REGISTER

Names of students are grouped in three lists, I, those who registered in either semester of 1929-30. II, those who attended the 1929 Summer School and III, extension students.

Explanation: S—scholar; F—fellow; HF—honorary fellow; numerals 30, 31, 32 and 33 are used to classify undergraduates; g—students formally admitted to the graduate division; s—special students; B—biology; Ch—chemistry; Ec—economics and sociology; G—geography; H—history and international relations; Ph—physics; Ps—psychology.

State omitted—Massachusetts; town omitted—Worcester; street names refer to streets unless otherwise indicated.

This list includes the names of all who have matriculated and registered. An asterisk (\*) indicates that the student has withdrawn from the University prior to March 1, 1930.

NAME	CLASSIFICATION	HOME ADDRESS	ica.	WORCESTER ADDRESS
*Abelsky, Michael	30 32	Ch	63	Houghton
Adams, Carl John	33	Shrewsbury	105	N.C:111
Adams, Lambi Nicholas Ambrose, Michael John	31			Millbury Fox
*Amsden, Festus Gilbert	31	Athol		Richards
Anderson, Alton Rudolph	- 31	Athor		West Boylston
Anderson, Esther Sanfreida	GF	Lincoln, Nebr.		Downing
Anish, Alfred William	33	Lincoln, Nebi.		Moen
Argoff, Irving	31			Providence
Arick, Wilfred Rutman	31			No. Woodford
Aronovitz, Edward	33			Wabash
*Arseneault, James Raymond				Alvarado Ave.
*Asamiya, Masao		New York City		Estabrook Hall
Ashworth, Jessie Ellen		Orono, Maine		Shirley
Back, Arthur William	33	Orono, manno		Florence
*Baker, Emily Veronica		Normal, Ill.		Woodland
Barber, William Perry		Putnam, Conn.		Maywood
Bartlett, Wallace Cameron		Winchendon		analy iroota
Bauman, Milton		Fitchburg		
Bean, Myron Arthur	31		13	Hackfeld Rd.
Becker, Raymond Carl	Geol s		560	Chandler
Beeber, Maxwell Samuel	31		14	Dover
Beigelman, Herman	33	Roxbury		Estabrook Hall
*Belakonis, John	32		148	Millbury
Belkin, Solomon	31		36	Granite
Bennett, Alfred Wardle	33	Auburn		
Benson, Gordon Luman	33	West Brookfield		
Berkovich, Louis	32	Haverhill	16	Tirrell
Berman, Warren William Billings, Wayne Ernest		Haverhill		Estabrook Hall
Billings, Wayne Ernest		Shrewsbury		
Biron, Archie Henry	32			Estabrook Hall
Bishop, Harold Mason		Shrewsbury		
Blackwell, George Louis		Thayer, Mo.		Estabrook Hall
Bland, Isadore Chester		Hartford, Conn.		Tirrell
Bliven, David Percival	33			Tallawanda Drive
Blomstrom, Lillian S.	Ph g			Coventry Rd.
*Bloom, Sol Stuart	32			Fox
*Bollinger, Clyde John	G F	Norman, Okla.		Lowell
Boretti, Napoleon B.	33	W	38	Laurel
*Bousios, Basil Nikolas	8	Willimantic, Conn.		0 01
*Boyle, Thomas Edward	Ph g	T		Sagamore Rd.
Brady, Edward William		Leominster		Oberlin
Briggs, Reginald Arthur	Ch S	D 11'		Dewey
Brightman, Milton	31 30	Brookline	402	Cates A
Brissette, Armand J., Jr.	32			Park Ave.
*Brown, Arnold		N N. 2.		Main
Brown, Horace Alvin		Norway, Me. ** Hartford, Conn.		Gates Main
Brown, Morris Yahe	31	narmora, Conn.		
Burke, James Francis	G F	Augusta Ma		Camp Loudon
Burrill, Meredith Frederic Butler, Philip Edward	33	Augusta, Me.		Preston
		Chicago, Ill.		Main
*Campbell, Edna Fay *Caplin, Jerome Benton		Roxbury		Estabrook Hall
Carleton, Thomas McMaster				Lotabious Hall
Casale, Daniel Joseph	33	Direwsbury	74	Fox
Casaro, Daniel Joseph	93		1.49	LUA

NAME	CLASSIFICATION	HOME ADDRESS /	WORCESTER ADDRESS
Catlin, Winton Irving	32	New Britain, Conn.	35 Maywood
Chapin, Lucy Elizabeth Christensen, Thomas Edison	H S	Greenfield	12 Shirley
Christensen, Thomas Edison	30		10 Lancaster
Christensen, Inomas Eduson Clark, Marshall Gorham Clarke, Katharine Bishop Coffyn, Kingsland Adams *Coggin, Mildred Georgina Cohen, Herbert William Cohen, Hyman *Colby, Kenneth Poole Collins, Edward Richard	31	Bridgton, Me.	20 Gates
Clark, Maishair Goldan	GS	Harten Carles Mark	20 Gales
Clarke, Katharine bishop	6.5	Harbor Springs, Mich.	1 Maywood Place
Coffyn, Kingsland Adams	GS	New York City Mount Vernon, N. Y.	35 Maywood
*Coggin, Mildred Georgina	Pss	Mount Vernon, N. Y.	119 Belmont
Cohen, Herbert William	33	Roxbury	Estabrook Hall
Cohon Hymon	Ph s 31	D I-I. W	25 Comb Tomore
Conen, Hyman	LH 8 21	Brooklyn, N. Y.	35 South Lenox
*Colby, Kenneth Poole	32	Keene, N. H.	20 Gates
Collins, Edward Richard	33		4 Shannon
Compton, John	33	Dorchester	Estabrook Hall
Corbin Milton Wallace	Geol s		6 Loudon
Compton, John Corbin, Milton Wallace Corfield, George Sibley		D D 37 . 37	O Loudon
Corneld, George Sibley	/ 8	Port Byron, N. Y.	9½ Hancock 5 Taft
Cove, Joseph Edward *Cox, Floyd Milton	' H g		5 Taft
*Cox. Floyd Milton	Ps s	Climax, N. C.	12 Oberlin
Cressey, George B. Crook, Mason Nelson Crowley, Paul Merrick	G F	Cranvilla O	5 Ripley Ter., New. Cer
Creak Mason Nolson	Ps F	Granville, O. Poolesville, Md.	o flipley rel., New. Ger
Crook, Mason Iverson		Poolesville, Md.	16 Columbus
Crowley, Paul Merrick	30		
*D'Addario, Domenic	30	Hartford, Conn.	Estabrook Hall
Davis, Harry	30	Providence, R. I.	
doMoreo Tosoph In	31	110/140400, 21, 1,	150 Ch
demarco, Joseph, Jr.			158 Shrewsbury
deMarco, Joseph, Jr. Diamond, Joseph Diamond, Nathan	8		15 Loxwood
Diamond, Nathan	32	Hudson, N. Y.	980 Main
Dickey, Robert Ira	30	Merrimac	20 Gates
Diettrich, Sigismond R.	G UF	Budapest	166 Woodland
Dakie Albert I.e.		Dudapest	
Dobie, Albert Joseph Dolan, Robert Andrew	30	3.5. 31	12 Bay State Rd.
Dolan, Robert Andrew	30	Marlboro	
Donabedian, Sarkis Melkon	32		532 Pleasant
Donahue, Michael Aloysius	30		161 Institute Rd.
Danauan John Jasanh	33	Haverhill	E-a-b
Donovan, John Joseph		navernin	Estabrook Hall
Dubois, Paul Norman	32		102 Lovell
Duffy, Frank King	33		Claremont
Duesel, Bernard Francis	Ch S		65 Stafford
Dworkin Myor Arthur	33		23 Fairbanks
Dworkin, Myer Arthur	77 6	Cl. TI.L. III	20 Fairbanks
Edman, Victor Raymond	HS		102 Wildwood Ave.
Eidam, Carl Louis	31	Methuen	
Eisner, Chauncey Anicet	31	Leominster	
Donahue, Michael Aloysius Donovan, John Joseph Dubois, Paul Norman Duffy, Frank King Dueael, Bernard Francis Dworkin, Myer Arthur Edman, Victor Raymond Eidam, Carl Louis Eisner, Chauncey Anicet Eliason, Chester Gabriel Erickson, Albert Clarence Erickson, Franklin Carl Fairchild, Johnson Eddy Feinsilver, Oscar	50	North Haven, Ct.	2 Cristy 35 Olga Ave.
Enishmen Albant Clausers	30	riorgia zitaron, dei	25 01 4
Erickson, Albert Clarence			55 Olga Ave.
Erickson, Franklin Carl	G S		15 Forestdale Rd. Estabrook Hall
Fairchild, Johnson Eddy	33	Glen Ridge, N. J.	Estabrook Hall
Feinsilver, Oscar	30		57 South
Fine James	32	Providence, R. I.	Estabrook Hall
Fine, James Fine, Robert		riovidence, R. I,	
Fine, Robert	33		12 Granite
*Fisher, Julius	32		38 Columbus
Fitzpatrick, Robert Joseph	33		11 Healy Rd.
Foster, Edward Clark	31	Haydenville	20 Gates
E I Alf J	33		
Fox, Louvane Alfred		Watertown, Ct.	Estabrook Hall
Foxhall, Harry	30		
French, George Malcolm	33	Stockbridge	Estabrook Hall
Foxhall, Harry French, George Malcolm *Fryer, Francis Lawrence Fuller, Laurance Martin	Есв		42 Prescott
Fuller Laurence Martin	33	Whitinsville	
Calaire Cial B			F-1-1 1 77 11
Gadaire, Charles Rice	32	Brookfield	Estabrook Hall
Gadaire, Charles Rice Galvin, Howard William	32		146 Lincoln
Gardner, Irving Arthur Gates, Donald Smith	32	Lowell	16 Tirrell 166 Woodland 919 Main
Gates, Donald Smith	G F	Urbana, II.	166 Woodland
Callerman Louis Warner	Ps F	Urbana, II. Seattle, Wash.	010 Main
Generman, Louis wanger		Seattle, wash.	J.J. Walli
Gilman, Jean Tillinghast	Ch s		101 Institute
Gladding, Royal Henry	32	Providence, R. I.	110 Houghton
Goldberg, Bernard Israel	32	Salem	37 Tirrell
Gilman, Jean Tilinghast Gladding, Royal Henry Goldberg, Bernard Israel Goldberg, Harold David Goldman, Nathan Goldstein, Samuel *Goodwill, Allen Morris Gordon Aubers Alexanon	33		Estabrook Hall
Caldman Nathan	Ps S		n I
Goldman, Nathan			9 Lamar Ave.
Coldstein, Samuel	30		59 Vale
*Goodwill, Allen Morris	33	Glastonbury, Conn. Blue Plains, D. C.	Estabrook Hall
Gordon, Aubrey Algernon *Gordon, Jacob Harvey	33	Blue Plains, D. C.	Estabrook Hall
*Gordon Isaah Harver	33		46 Fairfax Rd.
Conton, Jacob Harvey			
Grace, Louis Edward Grace, Sydney	32		4 Mott
Grace, Sydney	H S		30 South Lenox
Graham, Clarence H.	Ps F		14 Lewis
Graham, Clarence H. *Graham, Kenneth W. D. Greene, Clarence Sumner	33	S. Manchester, Conn.	Estabrook Hall
Croone Classics W. D.	CL-	Inmaion I I	10 Charlotte
Greene, Clarence Sumner	Ch s	Jamaica, L. I.	10 Charlotte
Gregory, Elizabeth Emery	GS	Cleveland, U.	10 Silver
Grimmer, Herman Joseph	Ch s	New Glasgow, N. S.	71 Jaques Ave.
Grimmer, Herman Joseph Griswold, Donald Statham		New Glasgow, N. S. Lancaster	
Olimoid, Donaid Diachail		Zanousto.	
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		VIOLEN I DDDDDO	WORCESTER ARRESS
Crossman Maurice Renismin	FICATION 32	HOME ADDRESS Greenfield	WORCESTER ADDRESS 3 Loxwood
Grossman, Maurice Benjamin *Grove, E. Viola Guest, Alice Elizabeth	8	Poughkeepsie, N. Y.	24 Loudon
Guest. Alice Elizabeth	Ch s	Amherst	State Hospital
Gustafson, Thorsten Adolf	H S		185 Belmont
Gustafson, Thorsten Adolf Hackett, Freeman Kendrick Haddad, William Haines, C. Grove Haines, George Henry	Ec g		192 Vernon
Haddad, William	31		18 Wall
Haines, C. Grove	H F		11 Clement
Haines, George Henry	Ec S	Abbottstown, Pa.	166 Woodland
*Halperin, Incodore Herzel	33	E. Boston	Estabrook Hall
Hair, Richard Chalmers Hall, Perry Blackmer	32 33	D. 11.	85 Downing Estabrook Hall
Hall, Perry Blackmer	33	Dudley	835 Main
Handy, Chester LeRoy	. 30		457 Park Ave.
Harding, Kenneth Clarke Hargrove, Clinton Gorham Harrison, James	32	Grafton	701 I alk 1110.
Harrison James	33	Roxbury	Estabrook Hall
Higginbottom, Arthur Raymond	32	Millbury	
Higginbottom, Arthur Raymond Higginbottom, George Higginbottom, Russell	. 30	Millbury	
Higginbottom, Russell	33	Millbury	
Hollis, Walter	30	Charlton	16 Tirrell
Holmgren, Axel Verner Horovitz, Edward Harry	32		34 Ames
Horovitz, Edward Harry	33	Roxbury	Estabrook Hall
Hotkowski, Edward John	33	Stafford Springs, Com	a. Estabrook Hall
Howarth, George Everett Hudgins, Bert Hutter, Harry Kennedy	33 G F	Datuait Mich	26 Arthur 131 Lovell
Hudgins, Bert	GS	Detroit, Mich. Waterman, Ill.	4 Hancock
*Imanishi Massa	Ec g	Kyoto, Japan	Estabrook Hall
*Imanishi, Masao Jacobs, David Harold	30	Meriden, Conn.	16 Tirrell
Laffe Sydney	33	Dorchester	Estabrook Hall
Iohanson, Yngve Walter	33	Oakdale	
Johnson, Yngve Walter  *Johnson, Clarence Gustaf Johnson, Edwin N.	32		4 Olga Ave.
Johnson, Edwin N.	30	Georgetown, Conn.	35 Maywood
*Johnson, Emil	·- Н С	Orange	
Johnston, Philip William	31		1 Hawthorne
Kabaker, Charles Bernard	33		45 Granite
Kaneb, George Dwight	31	221. 1.1	602 Grafton
Johnston, Emil Johnston, Philip William Kabaker, Charles Bernard Kaneb, George Dwight Kaplan, Daniel Karaku, Louis Theodore	33 33	Fitchburg	24 Bancroft
Karaku, Louis Incodore	31	Meriden, Conn.	12 Oberlin
Katz, Irving Kendall, Gerald Meringer	H S	Meriden, Conn.	38 Oberlin
Kennedy, Melvin Dow	H S		17 Orchard
Kenworthy, Philip Warren	30	Springfield	20 Gates
Kenworthy, Philip Warren Kidder, M. Lucile	Ec S	Waterville, Me.	156 Woodland
Kinniery, Honora Eleanor Klinglof, Philip Alfred	Нg	Millbury	
Klinglof, Philip Alfred	31		201 Lincoln
	33	_	23 Hollis
Knox, Arthur Randall, Jr. Konz, Victor Emil Korpi, Reino Korpi, Urho Kwukur, Martin	32	Taunton	20 Gates
Konz, Victor Emil	33	Yonkers, N. Y.	Estabrook Hall 18 Catherine
Korpi, Keino	31 33		18 Catherine
Krutaky Martin	31	Redwood, N. J.	1 Greenwood
Krutzky, Martin	30	Waterbury, Vt.	16 Isabella
Laakso. Toivo Matthews	33	Gardner	597 Park Ave.
Kutukchieff, Ivan Iliev Laakso, Toivo Matthews Laing, Lionel Hassell H	(AAS) S	Victoria, B. C.	26 Benefit
Larkin, Charles Adrian	30		60 Florence
Larkin, Charles Adrian Lauf, Paul A.	32		1019 Pleasant
Leach, Morton Glenn	32		51 Gates
Lebeaux, Lincoln	32	Shrewsbury	103 Harrison
Lebow, Aaron Leeper, Robert Legere, Edgar Homer	33	Roxbury	Estabrook Hall
Leeper, Robert	Ps F 31	Terrace, Pa. Leominster	16 Columbus
Legere, Edgar Homer	33	Leominster	3 Ashton
Lehtinen, Paul John Levenson, Samuel	30		106 Salem
Levine, Robert	30	Brooklyn, N. Y.	64 Arthur
Levitz, Aaron	30	Brooklyn, N. Y. St. John's, Nfld.	981 Main
Levitz, Aaron Liang, Chi Kai Liu, En-lan	Есв	Peking, China	Estabrook Hall
Liu, En-lan	G S	Shantung, China	166 Woodland
Lukens, Philip Woolman Luvisi, Fred Paul	32	Shantung, China Burlington, N. J.	35 Maywood
Luvisi, Fred Paul	Ch S		49 Suffolk
McCabe, George Edward	33		Estabrook Hall
McCauley, Byron Francis *McQueeny, Theresa Frances MacDowell, Edward William, Jr.	33	Dalton	Estabrook Hall 35 Westminster
McQueeny, Theresa Frances	G g 31		6 Bath
Mahony, Richard	30		60 Florence
Malmstead, Chester Winfield	32		151 Vernon
Mandell, Alfred	32		31 Derby

NAME Money Lawrence Arthur	CLASSIFICATION DL C	HOME ADDRESS	WORCESTER ADDRESS
Mansur, Lawrence Arthur Marchant, William Everett Marshall, Benjamin Tinkha Masterman, Maxwell Philip	Ph S 30		530 Park Ave.
Marshall, Benjamin Tinkha	m, Jr. 33		11 Hudson 31 May
Masterman, Maxwell Philip	32		84 Fairfax
Mattson, Arthur Emil Medin, Robert Wesley	30	Danbury	973 Main
Medin, Robert Wesley	31	Auburn	
Meleski, Anthony Paul Metcalf, John William, Jr.	32		130 Endicott
Metcalf, John William, Jr.	32	Brockton	35 Maywood
Michaels, Arthur	32	Everett	Estabrook Hall
Miura, Fumio	H g 30	Washington, D. C.	
Moberg, Edgar August	30		1 Daguerre 25 Bay State Rd.
Moore, Jonathan Frederick Moran, John Joseph	32	Clinton	25 Bay State Rd.
Mulvey, George	33	West Brookfield	Estabrook Hall
Murdock, Frederick M.	30	West Brookfield West Boylston	Zistabiook Itali
Mulvey, George Murdock, Frederick M. Nelson, Wilfred Albert	33	•	30 Whipple
Nordstrom, Joel	31		6 King
Northup, Francis F. O'Connor, Delia Gertrude	31		16 Shirley
O'Connor, Delia Gertrude	G g 31	Spencer	4 37
Olds, John Bryant Olson, Dorothy Mildred	Ps S	New York City New York City	4 Norwood 2 Woodbine
*O'Neil, Everett Arthur	33	New Tolk City	36 Tirrell
Oswell, Mahlon M.	31		4 Pelham
Old I C A	32		89 Houghton
Paivarinta, Olavi	33	Gardner	Estabrook Hall
Palmer, Franklyn George	32	Springfield	16 Shirley
Page, Charles Warren	Ps s		92 Malvern Rd.
*Parker, John Jackson	31 30	Fairhaven	908 Main
O Toole, George Augustine Paiwarinta, Olavi Palmer, Franklyn George Page, Charles Warren *Parker, John Jackson Peltier, Charles Lester Pender, John James Phair, James Arthur Philkin Richard Leanh	30	Dalton	973 Main
Phair James Arthur	31	Limestone Me	2 Abington 60 Florence
Philbin Richard Iosenh	31	Limestone, Me. North Grafton	922 Main
Philbin, Richard Joseph Pitkin, Victor Ellsworth	30	Marshfield, Vt.	35 Maywood
Politach I lovd	33	Gloversville, N. Y	7. Estabrook Hall
Pomerat, Charles Marc	Вв	W. Springfield	Y. M. C. A.
Popple, Arthur Scoville	31	Newport, R. I.	973 Main
Pomerat, Charles Marc Popple, Arthur Scoville Powell, Katharine Allen Read, Francis Arnold Reed, Emerson Charles Reynolds, James Bernard	H S	Baltimore, Md. Danbury, Conn. Addison, Conn.	45 Harvard
Read, Francis Arnold	30	Danbury, Conn.	35 Maywood
Reed, Emerson Charles	33 33	Addison, Conn.	Estabrook Hall 142 Wildwood Ave.
Rice, Wayland Revillo	Bs	Chester, Pa.	State Hospital
*Richards, Kenneth B.	31	Chester, I a.	3 Stafford
Riley, Stephen Thomas	31		35 Park Terrace
Robins, Martha	Gg	Fredericksburg, Va	. 57 May
Robins, Martha Rogers, Ernest Edward Rogers, Harry	33	Roxbury	Estabrook Hall
Rogers, Harry	30	Fairhaven	973 Main
Rosenblatt, Arthur	33 32	Chelsea	Estabrook Hall
Rose Walter Clifford In	32	Watertown Springfield	Estabrook Hall Estabrook Hall
Rosoff, Leon Ross, Walter Clifford, Jr. Roy, Joseph Lambert Roy, Raymond Serge	30	Webster	16 Shirley
Roy, Raymond Serge	33	New Bedford	12 Oberlin
Rubens, William Charles Ruedi, Oreen Morris	32	New Bedford New York City	Estabrook Hall
Ruedi, Oreen Morris	Ec F	Galena, Kan.	4 Downing
Ruedi, Oreen Morris Russell, William Franklin Rzewski, Anthony Stanley Salminen, Ilmari F. Salminen, Wilho M. Sandman, Jordan Philip Sanford, Florence Clapp *Satloff, Max Myer Scanlon, Edward Francis Scanlon, Leo Joseph Schonning, Carl Elmer Schulman, Herman Schwab, Donald Grouse	33		147 Coolidge Rd.
Kzewski, Anthony Stanley	32 33	TT 11	33 Perry Ave.
Salminen, Ilmari F.	32	Hubbardston Hubbardston	Estabrook Hall Estabrook Hall
Sandman, Jordan Philip	33	nubbardston	120 Elm
Sanford, Florence Clapp		North Grafton	120 Em
*Satloff, Max Myer	Вѕ		72 Bay View Terrace
Scanlon, Edward Francis	33	Clinton	83½ Florence 39 Granite
Scanlon, Leo Joseph	33		39 Granite
Schonning, Carl Elmer	30		76 Whipple
Schulman, Herman	33 H s	M:111	41 Somerset
Schwab, Donald Grouse Schweitzer, Leonard J.	H 8	Millbury	10 Allendale
Scott, John Howe	30		804a Main
Seligson, Isaac	33	New York City	4 Loxwood
Shachoy, Gordon Ralph	33	Allston	Estabrook Hall
Shachoy, Gordon Ralph Shapiro, Lous dEiwadr Shea, Joseph Michael	31		18 Ormond
Shea, Joseph Michael	32		15 Blanche 153 Providence
Sheftel, Milton Samuel	31		153 Providence
Sherman, David Sidor, Walter John	Hg	H-mt-ml C	79 Blossom
*Sidor, Walter John *Simkins, Ethel	32	Hartford, Conn. Lancashire, Eng.	973 Main 166 Woodland
Cimalio, Eliuci	O B	naneasuire, mig.	200 W Oodiand

NAME Simonds Stuart Houses	CLASSIFICATION 31	HOME ADDRESS	WORCESTER ADDRESS
Simonds, Stuart Howes Sinnott, James Robert L. Slade, Frank David	33	Hartford, Conn.	41 Maywood Estabrook Hall
Slade, Frank David		Pearl River, N. Y.	35 Maywood
Sleeper, Samuel	30		59 Vale
Slopak Ahraham		Colchester, Conn.	980 Main
*Smith, Fanny Rachel X Smith, Rubin Louis	G s	Gold Hill, Colo.	941 Main
Smith, Kubin Louis	32 33	C	75 Vale
Snape, William John *Snell, Silvanus H.	30		Estabrook Hall Estabrook Hall
Solomon, Harry David	30	Southbridge	17 La Grange
Southwick, Thomas Earle	30	Leicester	Il Da Olange
Spaulding, Charles Clinton	30		Estabrook Hall
Spence, Robert Adams	32	·	53 Kenwood Ave.
Spence, Vina Elizabeth	Gg	Chicopee Falls	4 Downing
Stedman, Harry Prouty Steiman, Solomon Eli		Gardner	19 Isabella
Steinhilber, Gustav Walter	33 33	Brookline	Estabrook Hall
Casimman Manuis		Haverhill	46 Dorchester Estabrook Hall
Stevens, Frank Paul	30	114 CIMIN	8 Lawrence
Stevens, James	33		8 Lawrence
Stewart, Walter Grant	Ch S		19 Kingsbury
*Stone, Carl Albert	33		64 Clover
Stevens, Frank Paul Stevens, James Stewart, Walter Grant *Stone, Carl Albert Strub, George Ramsey Sullivan, Leo Vincent	33	Plainfield, N. J.	Estabrook Hall
Sullivan, Leo Vincent	33	Darker Com	99 Grand View Ave.
Susnitzky, William Harold Swett, Elmer Lincoln	31	Danbury, Conn.	980 Main
Taliaferro, Rebecca Martin		Lynchburg, Va.	54 Grafton 35 May
Thomas, Cashius Mosby	33		15 Elizabeth
*Thomas, Katheryne C.	Gg		21 Shirley
*Thomas, Katheryne C. Thomas, Raymond Charles	Ec S	Buffalo, N. Y.	6 Hancock
Tilton, Ruth M.	Phs	Portland, Me.	State Hospital
Todd, Clifford Parker Tosi, Ernest Anthony	33 33	Sterling Junction	4 37 -1
Toy, Charles Mallery	31	Chesapeake City, Md.	4 Northampton 450 Park Ave.
Triedman, Joseph	33	Haverhill	Estabrook Hall
Turbeville, Harry Everett Twombly, Elwin H. *Ussher, Sydney Reynolds	Ec S	Oskaloosa, Ia.	166 Woodland
Twombly, Elwin H.	31	St. Johnsbury, Vt.	Estabrook Hall
*Ussher, Sydney Reynolds	30		40 May
Vinal, Ella Lydia	Ec F	North Scituate	738 Main
Wagner, Wilfred Herbert Walsh, Vincent Martin	33	Stockbridge	Estabrook Hall
Wellington, Parker	32		63 Stafford 29 May
Wells, Newton Albert	31	Granby, Conn.	973 Main
West, Anthony Joseph	G S		8 Barclay
West, Boardman Adelbert		E. Pepperell	193 Dewey
West, Frederick Myron		Haverhill	973 Main
Weymouth, Harold Davis Whitehouse, Karl Chism		Fisherville	20 Gates
Whitman, Howard Glenn	32 33	Abington, Conn.	20 Gates 48 Downing
Whitman, Samuel Milton	30		26 Woodford
Wiel, Theodore Alexir	30		94 Lovell
Wiener, Harry Julius	33	Revere	Estabrook Hall
Wilner, Irving	32		B9 Coral
Williams, William Larkin	30	Williamsville, Vt.	20 Gates
Wilson, Frank Edward	30, Ch S H F		
Winslow, Guy H. Winter, Oscar Frederick	30	S. Lancaster	15 Reservoir
Winter, Oscar Frederick Winton, Hildreth Turner		Stratford, Conn.	11 Charlotte
Wordell, Everett J.	30	Portsmouth, R. I.	20 Gates
Wordell, Everett J. Wright, Albert Charles Zeller, Rose	31		32 Gardner
Zeller, Rose	G S	Springfield, Ill.	24 Loudon
1020	STIMM	EB SCHO	OI

#### 1929 SUMMER SCHOOL

Atwood, Robert B.
Balcom, Mildred I.
Bergin, John C.
Bingham, Christina
Bingham, Mary A.
Blackwelder, Mabel C.
Bowser, Mary H.
Bragg, Doris M.
Britton, C. Edgar
Brown, Virginia M.

Winnetka, Ill.
Worcester
Millbury
Nashua, N. H.
Nashua, N. H.
Witt, Ill.
Warren, Ohio
Worcester
Johnson City, Tenn.
Wilmington, Del.

\* Som as Goldstine (name changed to Slieper)

Bryant, Gertrude M. Burch, Eleanor R. Campbell, Anna L.
Carey, Helen
Carlson, Albert S.
Carruth, Glenn H. Champlin, Ruth Chardon, Isabel Cole, Estelle P.
Conlon, Nellie E.
Conroy, Marion
Cook, M. Bernice
Cook, Ruth N.
Close, Anna E.
Corfield, George S.
Cotterel, Mary E.
Cottrell, Avis S.
Courtney, Elizabeth M.
Cronin, Mary M.
Curtis, Elinor S.
Dana, Elizabeth M.
DeLaplane, Helen V.
Dell, Nellie
Denton, J. William
Dewar, Margaret H.
Dion, Natalie M. Cole, Estelle P Denton, J. William
Dewar, Margaret H.
Dion, Natalie M.
Dome, Maud B.
Dominis, Beatrice L.
Donnelly, Mary T.
Doyle, Catherine A.
Dumas, Theodore
Easterling, Thomas L.
Elliott, Virginia D.
Ernst, Viola M.
Ewald, George
Fogarty, Mary E.
Foley, Jeremiah A.
Gano, Alice
Gerard, Wilhelmina
Germain, Eileen C.
Graham, Guilbert R.
Gray, Margaret V.
Greeko, Edna T.
Grove, E. Viola
Guilfoyle, Rose M.
Gustafson, Thorsten A.
Hall, Florence E. Hall, Florence E.
Hande, Mabel
Hanson, Carrie C.
Harney, Marion
Harris, Daisy M.
Harris, Marion V.
Haskell, Lillian E. Haskell, Lillian E. Henderson, Mildred Hines, A. Gertrude Hines, Agnes Hodgin, Marion Hogan, Frances Hoss, Alma Houghton, Harriet E. Houston, Ann J. Hutchinson, Mary C. Hutchinson, Mary C.
Hutter, Harry K.
Jagodnik, Martha
Johnson, Hilda V.
Kane, Mary F.
Keller, Louis R.
Kennedy, Catherine A.
Kennedy, Margaret C.
Kenney, Berenice M.
Kichle, Shirley
Kinsier, Anna A. Kinniery, Anna A. Kinniery, Honora Kinniery, I Laws, John LeBrant, Naomi C.

Worcester Worcester Worcester Worcester Worcester Worcester Bay Shore, N. Y. Rio Piedras, P. R. Springfield Worcester Worcester Forest View, Montor, Ohio Nelsonville, Ohio Nelsonville, Cherry Valley Worcester Attleboro Reading, Pa. Boston Worcester Dorchester Woodville Worcester York, Pa. Detroit, Mich. Worcester Worcester Putnam, Conn. Indianapolis, Ind. Worcester Worcester Worcester Worcester Worcester Worcester Ky. Covington, Detroit, Mich. Worcester Sutton Drexel Hill, Pa. Elmira, N. Y. Worcester Zanesville, Ohio Worcester Worcester Poughkeepsie, N. Y. Worcester Worcester Watertown, N. Y. Hackensack, N. J. Hastings, Neb. Worcester Syracuse, N. Y. Millbury Somerville Worcester Worcester Worcester Lynchburg, Va. Worcester Indianapolis, Ind. Princeton Washington, D. C. Staten Island, N. Y. Waterman, Ill. Worcester Worcester Worcester Cleveland Heights, Ohio Worcester Worcester Westboro Waukegan, Ill. Millbury Millbury Worcester Schuylerville, N. Y.

Lee, Grace L.
Lee, Alice A.
Lee, Margaret F.
Leonard, A. Loretta
Lewis, Lillian M.
Liang, Chi Kai
Lindeman, Mary E.
Linscott, Edward L.
Lombard, Helen F.
Lombard, Mildred A.
Ludwig, Oswald
Lustman, Lila E.
McGrath, Margaret G.
McQueeny, Theresa F.
Manion, Esther A.
Means, Margaret
Medin, Elin E.
Meehan, Lillian A.
Mellen, Anna T.
Melton, Nell L.
Monahan, Katherine Melton, Nell L.
Monahan, Katherine
Moyer, Josephine
Mulcahy, K. Cecilia
Nelson, Esther E.
Nolan, Mary
O'Connor, Mary E.
Ostrom, Abbie C.
Parker, Dorothy M.
Parmelee, Elizabeth
Parris, Mabel H.
Payne, Arvella
Power, Katherine L.
Prouty, Etta
Ptach, Evelyn
Purinton, Bernice
Quinn, Clare E.
Reddig, Etta E.
Robins, Martha
Ross, Sabra L.
Savage, Elizabeth A.
Scannell, Agnes V.
Schwab, William K.
Seder, Thelma
Seely, Bessie L.
Shaughnessy, Thomas P.
Shaw, Earl B.
Sherman, David
Slade, Frank D. Monahan, Katherine Shaw, Earl B.
Sherman, David
Slade, Frank D.
Smith, Mary E.
Snape, Thelma L.
Sodke, Clara M.
Sowden, Ruth V.
Stotz, Carl L.
Strasburg, Frederick R.
Sullivan, Mary V.
Swartfiguer, Eva M.
Taliaferro, Rebecca M.
Thompson, Elizabeth G.
Tolman, Ellen D.
Tolman, Louise D.
Toomey, Harry L.
Traynor, Catherine T.
Trevott, Elise M.
Underhill, Mary
Vail, Anna F.
Valldejuli, Maria A.
Vegler, Ethel
Walker, Carol T.
Weaver, William R.
Wells, Mildred E.
Willard, Ethel L.
Winslow, Guy H. Sherman, David Winslow, Guy H. Wooster, Edna B. Wrightson, George F. Zeller, Rose

Newark, N. Y. Worcester Worcester Worcester Worcester Peking, China Trenton, N. J. Bluehill, Maine Worcester Worcester Dearborn, Mich. Worcester Lawrence Worcester Washington, D. C. Bloomington, Ill. Auburn Worcester Worcester Atlanta, Ga. Worcester Reading, Pa. Worcester New York, N. Y. Worcester Spencer Worcester Whitehall, N. Y. New York, N. Y. Fredonia, N. Y. Middletown, N. Y. Worcester Shrewsbury Detroit, Mich. Bangor, Maine Worcester Sinking Spring, Pa. Fredericksburg, Va. Elmira Heights, N. Y. Worcester Allston Charlton Worcester Detroit, Mich. Worcester St. Louis, Mo. Worcester Pearl River, N. Y. Worcester
Camden, N. J.
Wausau, Wis.
S. Orange, N. J.
Detroit, Mich.
Wilbraham Worcester Poughkeepsie, N. Y. Lynchburg, Va. Worcester Auburn Worcester Worcester Worcester Rutland, Vt. Piermont, N. H. New Bedford Rio Riedras, P. McDonald, Ohio Troy, N. Y. Trenton, N. J. Springfield P. R. Worcester S. Lancaster San Diego, Calif. Worcester Springfield, Ill.

#### **EXTENSION STUDENTS 1929-30**

Aalto, Aino A.
Adams, Marian E.
Alden, Clara L.
Almstedt, Hulda M.
Amiot, Alice G.
Amiot, Mary L.
Bacon, Ruth I.
Bacon, Virginia E.
Bates, Elinor G.
Beck, Mildred L.
Begley, Jennie V.
Berube, Eva L.
Biebebach, Cecile I Begley, Jennie V.
Berube, Eva L.
Biebebach, Cecile I.
Boehner, Ruth P.
Boson, Svea
Bousha, William J.
Bowen, Doris May
Bowen, Grace L.
Bowen, Harriet M.
Bowler, Gertrude A.
Breen, Margaret A.
Brooks, May L.
Brown, A. Jean
Bruce, Rachel S.
Bryant, Nellie J. Bryant, Nellie J.
Burns, Alice I.
Burns, Maria J.
Cahill, Anne G.
Callaban, Maria Campbell, Anna L.
Carey, Helen
Carleton, May L.
Carmody, Sarah A.
Carney, Grace L.
Carpenter, Grace H.
Carroll, Margaret M. Cavanaugh, Teresa Clark, Helen M. Coffey, Grace C. Cohen, Ruth
Cole, May Elizabeth
Comins, Dorothy R.
Comins, Elizabeth A. Comins, Dorwing, Comins, Elizabeth A. Cone, May M. Conlon, Nellie E. Conroy, Anne C. Converse, Ann Costello, Florence P. Courtney, Mary E. Courtney, Mary E. Cox, Mary R. Cox, Mary R.
Craffey, Frances E.
Craffey, Gertrude
Cronin, Margaret G.
Cunningham, Mary E. Curtis, Anna L. Davis, Ella G. Degnan, Katherine T. Degnan, Rose M. DeLaMater, Gertrude Delaney, Mary F. Dewar, Margaret H. Dewar, Margaret H.
Diggins, Grace L.
Diggins, Helen B.
Dodge, Mary C.
Donahue, Margaret D.
Donnelly, Mary T.
Doyle, Catherine A.
Doyle, Margaret, M.
Doyle, Elizabeth A.
Doyle, Elizabeth A.
Doyle, Alice R. Drohan, Alice R.

Drohan, John J.
Duggan, Helen G.
Dugan, Mary E.
Duguid, Sarah J.
Dunn, Ellen G.
Eggers, Cornelia D. Estabrook, Rita C. Fisher, Mary B. Fitman, Anna G. Fisher, Mary B.
Fitman, Anna G.
Flaherty, Mary J.
Flower, Maveret H.
Foley, Katherine A.
Foley, M. Alice
Ford, Anne J.
Caffney Alice I. Ford, Anne J.
Caffney, Alice L.
Gahan, Julia T.
Galvin, Della E.
Galvin, Mary R.
Gibbons, Julia S.
Ginn, Addie M.
Goodspeed, Madge L.
Grady, Mary M.
Gray, Margaret V.
Grove, E. Viola
Hale, Delia M.
Hand, Helen C.
Harney, Marion Burns, Alice I.

Burns, Maria J.

Cahill, Anne G.

Callahan, Margaret T.

Callahan, Winifred C.

Callahan, Ellen G.

Campobell, Anna L.

Carey, Helen

Carleton, May L.

Carrook, Sarah A.

Hand, Helen C.

Haley, Ellen A.

Healey, Mary C.

Higginbotham, Willie R.

Higginbotham, Willie R.

Hogkins, Ruth G.

Carrook, Sarah A.

Hudson, Jestte Hopkins, Florence
Howe, Wyman V.
Hudson, Isette
Hurley, Mary J.
Hurowitz, Solomon
Hutchins, Barbara
Jenkins, Florence S.
Kane, Josephine V.
Kane, Mary F.
Kaplan, Sara
Kearney, Katherine V.
Kelleher, Dorothy B.
Kelley, Alice E.
Kelley, Catherine F.
Kelliher, Margaret C.
Kennedy, Catherine A.
Kennedy, Irene M.
Kennedy, Margaret C.
Killelen, Mary E.
Kilton, Dorothy G.
Killelen, Mary E.
Kilton, Dorothy G.
King, Helen L.
King, Marguerite F.
Kinniery, Anna A.
Kinsley, Edith L.
Knowlton, Clover G.
Knowlton, Esther Knowlton, Clover G.
Knowlton, Margaret W.
Labiff, Martha K.
Larkin, Mary J. M.
Latchford, Mary E.
Lawlor, Mary A.
Laws, John S.
Lecoeuvre, S. Jane
Lee, Alice, A.
Lee, Anna M.
Lee, Anna R.
Lee, Margaret F.
Lombard, Grace M.
Lombard, Helen F.
Lombard, Mildred A.

Long, Alice M. Lyons, Jeanette F. Lynch, Mary V. Lyseth, Amy C. Lyseth, Amy C.
McAuliffe, Anna D.
McAuliffe, Grace E.
McAuliffe, Margaret I.
McCarthy, Margaret N.
McCormack, Frances M. I.
McCortney, Agnes McCormack, Frances
McCorntey, Agnes
McDonald, Mary I,
McDonald, Mary V,
McDonnell, Mary C,
McDonnell, Nellie A,
McGillicuddy, Mary V McGorty, Annie V.
McGrath, Elizabeth M.
McGrath, Mary F.
McGuire, Bernise K.
McHugh, Catherine M.
McHugh, Hannah T.
McMuse, Elizabeth C. McHugh, Hannah T.
McManus, Elizabeth C.
McManus, Elizabeth S.
McMurray, Mary D.
McPortland, Mary E.
McQuaid, Katherine L
McQueeny, Dorothy E.
McSheeby, Elsie M. McSheehy, Elsie M MacNab, Alice B. Mahon, Kathryn, E. Mahoney, Margaret J. Mahoney, Rose M. Maine, Leonard L. Malloy, Helen K.
Maloney, Catherine M.
Manzi, Emily M.
Mara, Agnes V.
Marsh, Kathleen
Matthews, Anna V.
Matthews, Mary A.
Maynard, Florence
Maynard, Gertrude
Mellen, Alice
Mellen, Alice
Mellen, Alice
Mellen, Evelyn S.
Mittell, Edith
Miller, Pearl A.
Molloy, Mary H. Malloy, Helen K. Miller, Pearl A.
Molloy, Mary H.
Moore, Robert L.
Moran, Helen G.
Mower, Elsie D.
Moynihan, Mary C.
Mulroy, Thomas P.
Murphy, Anne E.
Murphy, Catherine V.
Murray, Loretta E.
Narle Mary E. Murray, Loretta Nagle, Mary E. Nash, Janet S. Nelson, Alice S.
Nelson, Florence A.
Noonan, Florence G.
Nordmark, Lillian M.
Novogrod, Lillian A. Oates, Patricia L.
O'Brien, Mae E.
O'Brien, Florence R. O'Brien, Florence R.
O'Connor, Mary C.
O'Connor, Mary E.
O'Connor, Delia G.
O'Connor, Sabina G.
O'Flynn, Mary G.
O'Grady, Winifred L.
Olin, Paul A.

Ollis, Grace E.
Ormsby, Martha E.
Orr, Susan
Ostrom, Abbie C.
Parent, Mary R.
Parker, Freida M.
Portle, Dorothy U.
Power, Josephine R.
Power, Gertrude C.
Power, Ruth W.
Powers, Elizabeth M.
Prager, Sybil W.
Prouty, Etta F.
Quinn, Margaret
Rankin, Ethel M.
Reed, Gladys
Roberts, Ruth M.
Rollins, Arthur S.
Rome, Ruth C.

Rougvie, Agnes S.
Rowe, Isabel C.
Salmon, Edward P.
Salter, Dorothy
Savage, Elizabeth A.
Sayle, Mary E.
Scheifley, Claude K.
Shattuck, Anna W.
Shea, Agnes G.
Shea, Joseph E.
Shea, Mary # G.
Smith, Mabel N.
Snow, Edith
Steele, Margaret U.
Sullivan, Agnes T.
Sugden, Lelia
Sullivan, Catherine M.
Sullivan, Marie
Sullivan, Mary V.
Sullivan, Peter F.

Swanson, Ethel G.
Thompson, Anna F.
Thompson, Ellen C.
Thompson, Ellen C.
Thompson, Helen L.
Tilson, Anna E.
Traynor, Catherine T.
Trimble, Irene E.
Vinal, Ella L.
Wall, Roy H.
Ward, Mary L.
Warner, Helen R.
Warrer, Sarah C.
Wells, Marion G.
Wells, Marion G.
Whitman, Ina A.
Wiel, Theodore A.
Willard, Ethe! L.
Williams, Alice P.
Witherspoon, Miriam F.
Wynn, Marguerite M.

## SUMMARY 1929-30

Undergraduates		252
Freshmen	90	
Sophomores	59	
Juniors	47	
Seniors	56	
Graduate Students		68
Special Students		22
Extension Students		280
Summer School Students (1929)		161
		***************************************
Total		783

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161				
26,	46			
22,	26	87		
93				
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59,	60			
41				
49				
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Registrar's Copy

# CLARK UNIVERSITY BULLETIN

ALUMNI NUMBER



WORCESTER, MASSACHUSETTS MAY, 1930



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ALUMNI NUMBER



WORCESTER, MASSACHUSETTS MAY, 1930



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# **PREFACE**

# To the Members of the Alumni:

This is the first complete Alumni Register which has been published by Clark University. We have taken great pains to secure accurate information regarding each member of the alumni body but we have failed to receive replies from a number on the list and therefore we feel that there are errors in the material which we are publishing. We invite your cooperation in sending in corrected data as promptly as possible and in keeping us informed so that when the lists are republished they may be entirely satisfactory to everyone. The register is divided into three parts: in the first division we present the information available about each individual and have the names arranged by classes; in the second division the names are grouped geographically; and in the third division there is an alphabetical list. Where the name of the college is not given, the degree listed was received from Clark.

We have long wanted to publish this list and we are sending a complimentary copy to each one whose name appears in the volume. We hope it will prove of interest to you on many occasions and it may prove of value to you in keeping up your associations with other members of the Clark group and in planning local reunions or organizations of the alumni body.

With kindest personal regards, I am

Cordially yours,

WALLACE W. ATWOOD,

President.

# HISTORICAL NOTE

The University owes its existence to the interest in higher education of Jona Gilman Clark, who was born at Hubbardston, Worcester County, Massachu setts, February 1, 1815. Conscious of the meagreness of his own early educational opportunities, he devoted his later years to the establishment and nurtur of the institution which bears his name. In this he was ably assisted by hwife, Susan W. Clark, and by prominent citizens of Worcester. Mr. Clardied at Worcester on May 23, 1900.

The charter of the University was granted by the General Court of Massa chusetts in 1887. The Graduate Division, with Granville Stanley Hall a president, received its first students in 1889. Special provision was made in M Clark's will for the establishment of a collegiate Undergraduate Division wit its own president but under the same general control as the Graduate Division Carroll Davidson Wright was chosen president of the Undergraduate Division and students were first received in October, 1902. After the death of Presider Wright in 1909, Edmund Clark Sanford, then Professor of Psychology in the Graduate Division, was chosen as President of the college.

In June, 1920, Presidents Hall and Sanford resigned and Wallace Walted Atwood was elected to the presidency of both the Graduate and the Undergraduate Divisions of the University.

During the academic year 1920-21 the two faculties continued their separat organizations while plans for unification were being worked out. These plan approved by the Board of Trustees, went into effect in 1921-22 and provide for the fusion of the two faculties into a single body.

With the election of President Atwood, provision was made for the establishment of a Graduate School of Geography, and work in that school was beguin the fall of 1921.

A Summer School with a six weeks' session has been conducted each year beginning in 1921.

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D. C. RIDGLEY
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# UNIVERSITY STAFF

WALLACE WALTER ATWOOD, PH.D. 160 Woodland St. President, 1920-. Professor of Physical and Regional Geography. Director of the Graduate School of Geography. Editor, Economic Geography. Louis N. Wilson, Litt.D. 11 Shirley St. Librarian 1889-1929. Librarian Emeritus HENRY TABER, PH.D. 2 Pleasant Place Professor of Mathematics, 1903-21. Professor Emeritus. WILLIAM HENRY BURNHAM, PH.D. 20 John St. Professor of Education and School Hygiene, 1906-26. Professor Emeri-BENJAMIN SHORES MERIGOLD, PH.D. 166 Woodland St. Professor of Chemistry. Director of the Chemical Laboratories. FRANK BLAIR WILLIAMS, PH.D. 24 Loudon St. Professor of Mathematics. GEORGE HUBBARD BLAKESLEE, PH.D., L.H.D. 21 Downing St. Professor of History and International Relations. CHARLES BREWSTER RANDOLPH, Ph.D. 10 Otsego Rd. Professor of German. PHILIP HUDSON CHURCHMAN, PH.D. 20 Institute Rd. Professor of Romance Languages, 1920-. HAVEN DARLING BRACKETT, PH.D. 114 Woodland St. Professor of Greek and Latin, 1920-. 166 Woodland St. LEROY ALLSTON AMES, A.M. Professor of English Literature, 1920-. LORING HOLMES DODD. PH.D. 88 Sagamore Rd. Professor of Rhetoric, 1920 ROBERT HUTCHINS GODDARD, PH.D. 17 Gates Lane Professor of Physics. Director of the Physical Laboratories. HOMER PAYSON LITTLE, PH.D. 156 Woodland St. Professor of Geology and Dean of the College 1922-. SAMUEL J. BRANDENBURG, PH.D. 173 Woodland St. Professor of Economics and Sociology, 1923-.

769 Main St.

ALFRED LEWIS PINNEO DENNIS, PH.D.

Professor of Modern History.

CARL MURCHISON, Ph.D.

Professor of Psychology, 1923-. Director of the Psychological Laboratories. Editor, The Pedagogical Seminary and Journal of Genetic Psychology; Genetic Psychology Monographs; Journal of General Psychology; Co.-Editor, Journal of Social Psychology. Director of the

ELLEN CHURCHILL SEMPLE, A.M., LL.D. Professor of Anthropogeography.

Clark University Press.

941 Main St.

WILLIAM HOMER WARREN, Ph.D. 166 Woodland St. Professor of Organic Chemistry, 1925 (Feb.)-.

Walter Samuel Hunter, Ph.D. 171 Woodland St. G. Stanley Hall Professor of Genetic Psychology, 1925-. Editor, Psychological Abstracts, Psychological Index.

CHARLES FRANKLIN BROOKS, Ph.D. 209 Lovell St. Professor of Meteorology and Climatology.

Douglas Clay Ridgley, Ph.D

Professor of Geography in Education. Director of the Summer School.

Director of the Home Study Department.

Walter Elmer Ekblaw, Ph.D. Box 431, No. Grafton, Mass. Professor of Geography. Assistant Editor, *Economic Geography*.

James Blaine Hedges, Ph.D. 25 Delawanda Drive Professor of American History.

CLARENCE FIELDEN JONES, Ph.D.

Professor of Economic Geography. Associate Editor, Economic Geography.

JOHN PAUL NAFE, Ph.D. 1 Freeland St. Professor of Psychology.

CAREY EYSTER MELVILLE, A.B.

Associate Professor of Mathematics. Registrar.

16 Isabella St.

Vernon Jones, Ph.D.

Associate Professor of Educational Psychology, 1926.

6 Ripley St.

James Ackley Maxwell, Ph.D. 2 Stoneland Rd. Associate Professor of Economics.

LELAND LEAVITT ATWOOD, Ph.D. 68 Mann St. Assistant Professor of Romance Languages, 1926-.

JESSE LUNT BULLOCK, A.M.

Assistant Professor of Chemistry, 1926-.

35 Downing St.

ARTHUR FLETCHER LUCAS, Ph.D.  Associate Professor of Economics and Sociology. A 1926-29. Associate Professor, 1929	18 Ferdinand St. Assistant Professor,
George Elisha Baker, A.M.	Estabrook Hall
Assistant Professor of English. Proctor, Estabrook	
Heinrich Morant Bosshard, Ph.D. Assistant Professor of German, 1927-,	12 Shirley St.
DWIGHT ERWIN LEE, PH.D.  Assistant Professor of Modern European History 192	3 Wyman St.
DAVID POTTER, M.Sc.	15 Shirley St.
Assistant Professor of Biology.	13 billiey be.
PERCY MARTIN ROOPE, Ph.D. Assistant Professor of Physics.	36 Richards St.
OSCAR WHITE RICHARDS, A.M. Assistant Professor of Biology 1928 (Feb.) \\30	12 May St.
WILLIAM CLEMENT EATON Assistant Professor of History, 1929-30.	2 Woodbine St.
PAUL WALBERT SHANKWEILER, A.M. Assistant Professor of Sociology, 1929	35 Freeland St.
CURTIS F. MARBUT, LL.D.  Special Lecturer in Geography.	
ERWIN C. MILLER, M.D.	
Special Lecturer in Biology.	
GUY H. BURNHAM, A.M. Cartographer, Graduate School of Geography.	19 Bowdoin St.
ERNEST RAYMOND WHITMAN Director of Physical Education.	48 Downing St.
RALPH WARNER ELLIS, M.D.  Medical Director.	574 Main St.
FLORENCE CHANDLER Bursar.	18 Downing St.
DEAN WINSLOW HANSCOM, A.B.  Director of the Musical Clubs.	Waban, Mass.
EUGENE C. BELKNAP Curator, Department of Chemistry.	9½ Hancock St.
John W. Boardman	15 Shirley St.

Superintendent of Buildings and Grounds.

# STUDENT ASSISTANTS

# Biology

CHARLES M. POMERAT

# Chemistry

REGINALD A. BRIGGS, A.B. BERNARD F. DUESEL, A.B. FRED P. LUVISI, A.B. WALTER G. STEWART, A.B.

# Economics and Sociology

GEORGE H. HAINES, A.B. RAYMOND C. THOMAS, A.B. HARRY E. TURBEVILLE, A.B.

# Geography

GEORGE B. CRESSEY

# History and International Relations

GEORGE L. BLACKWELL, A.B. VICTOR R. EDMAN, A.B. GERALD M. KENDALL, A.B. GUY H. WINSLOW, A.M.

# Physics

THOMAS E. BOYLE, A.B. LAWRENCE C. MANSUR, A.B.

# Psychology

MASON N. CROOK, A.B., A.M. LOUIS W. GELLERMAN, A.M. CLARENCE H. GRAHAM, A.M. ROBERT W. LEEPER, A.M.

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Secretary-Treasurer Eugene Stevenson Class of 1917
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President
Vice-President Leon E. Felton Class of 1907
Secretary-Treasurer

# ALUMNI OF CLARK UNIVERSITY

# HONORARY DEGREES

1000		TXT:11:0 A11 NT	T T T
1899		William Albert Noyes	LL.D.
Ludwig Boltzmann	LL.D.	William Fogg Osgood	LL.D.
Santiago Ramon Y Cajal	LL.D.	James Pierpont	LL.D.
August Forel	LL.D.	Theodore William Richards	Chem.D.
Angelo Mosso	LL.D.	Ernest Rutherford	Phys.D.
Emile Picard	LL.D.	William Stern	LL.D.
		Julius Stieglitz	D.Sc.
1902		Edward Bradford Titchener*	Litt.D.
Henry Cabot Lodge*	LL.D.	Edward Burr VanVleck	LL.D.
Carroll Davidson Wright*	LL.D.	Vito Volterra	Phys.D.
1909		Charles Otis Whitman	Biol.D.
	***	Lebbeus L. Wilfley	LL.D.
Carl Barus	LL.D.	Robert Williams Wood	LL.D.
Franz Boas	LL.D.	1924	
Marston Taylor Bogert	LL.D.		
Hermon Carey Bumpus	LL.D.	Edmund C. Sanford*	LL.D.
Leo Burgerstein	LL.D.	1926	
Andre Debierne	D.Sc.	William H. Burnham	IID
Sigmund Freud	LL.D.		LL.D.
Herbert Spencer Jennings	LL.D.	Crown Prince Gustavus Adolphus	D.Sc.
Carl G. Jung	LL.D.	1929	
Percival Lowell	LL.D.	Paul W. Claudel	D.Lit.
Adolf Meyer	LL.D.	1030	212111
Arthur Michael	LL.D.	1930	
Albert Abraham Michelson	Phys.D.	William Lowe Bryan	LL.D.
Eliakim Hastings Moore	Math.D.	Rear Admiral Ralph Earle	LL.D.
Ernest Fox Nichols	LL.D.	Arnold Lucius Gesell	D.Sc.
Arthur Amos Noves	LL.D.	J. Stevens Kadesch	M.Ed.

# CLASS LISTS

Abbreviations and Special Signs

H.-Home address.

B.—Business address.

1-Mail returned.

\*-Deceased.

†-See index for date of first class membership since complete information concerning each alumnus appears but once.

# CLASS OF 1891

Ph.D.

Bumpus, Hermon C., Ph.D., LL.D. 1909; Duxbury, Mass.

Nichols, Herbert, Ph.D., Sc.B. 1871 W. P. I.; 302 Summit Ave., Coolidge Corner P. O., Brookline, Mass.

# CLASS OF 1892

Ph.D.

Bryan, William L., Ph.D., A.B. 1884 and A.M. 1886 Ind. Univ.; pres. Ind. Univ., Bloomington, Ind.

Chamberlain, Alexander F., Ph.D. Died

1914. Clark, Thomas H., Ph.D., Sc.B. 1880 W. P. I.; retired; H. 34 Lancaster St., Worcester, Mass.

Eycleshymer, Albert C., Ph.D. Died 1925. Jordan, Edwin O., Ph.D., ScD. 1920 Univ. of Cincinnati; prof. bacteriology; B. Univ. of Chicago, Chicago, Ill., H. Homewood, Ill.

Wheeler, William M., Ph.D., S.D. 1918 Univ. of Chicago, LL.D. 1928 Univ. of Calif.; prof. entomology, Harvard Univ.; B. Museum of Comparative Zoology, Cambridge, Mass., H. 39 W. Cedar St.,

Boston, Mass.
Young, J. W. A., Ph.D., A.B. 1887 Bucknell Univ.; 5422 Blackstone Ave.,

Chicago, Ill.

# CLASS OF 1893

Ph.D.

Daniels Arthur H., Ph.D.; 805 Nevada St., Urbana, Ill.

Hall, T. Proctor, Ph.D., A.B. 1882 Toronto, A.M. and Ph.D. 1889 III. Wesleyan Univ.; physician; H. 2475 W. Third Ave., Vancouver, B. C., Canada.

Holgate, Thomas F., Ph.D., A.B. 1884 Al-

bert Col.; prof. mathematics; B. Northwestern Univ., Evanston, Ill., H. 617 Liberty Pl., Evanston, Ill.

Metzler, William H., Ph.D., A.B. 1888 Univ.

of Toronto; dean; B. State Sch. for Teachers, Albany, N. Y.

Tracy, Frederick, Ph.D., A.B. 1889 Univ. of Toronto, LL.D. 1927 (Honoris Causa) McMaster Univ.; prof. ethics; B. Univ. of Toronto, Toronto, Ontario, Canada.

# CLASS OF 1894

Ph.D.

Bergstrom, John A., Ph.D. Deceased. Bridge, John L., Ph.D., Sc.B. 1888 Wesleyan, M.D. 1903 Harvard Univ.; physician; Hazardville, Conn.

Dresslar, F. B., Ph.D. Died 1930. Weems, Julius B., Ph.D., Sc.B. 1888 Univ. of Md.; chief chemist; B. Dept. of Agric. of Va., 1102 State Office Bldg., Richmond, Va., H. Ashland. Va.

#### CLASS OF 1895

Ph.D.

Bolton, Thaddeus L., Ph.D., A.B. 1889 Univ. of Mich.; head prof. psychology; B. Temple Univ., Philadelphia, Pa., H. 231 Wayne Ave., Narberth, Pa.

Dowling, L. Wayland, Ph.D. Died 1929.

Drew, Frank, Ph.D. Died 1922.

Hill, John E., Ph.D.; vice-president; B. 114 Liberty St., N. Y. C., H. 1477 E. 16th St., Brooklyn, N. Y.

Leuba, James H., Ph.D., Sc.B. 1886 Academie de Neuchâtel (Switzerland); prof. psychology; B. Bryn Mawr Coll., Bryn Mawr, Pa.

Luckey, George W. A., A.M., Sc.B. 1883
N. I. N. S. Valparaiso, Ind., A.B. 1894 Stanford, Ph.D. 1900 Columbia Univ.; retired, now active in writing and research; H. 1401 Fairmont St., N. W., Washington, D. C.

Nichols, Thomas F., Ph.D., grad. 1892 Bowdoin Coll.; Federal Bldg., Troy, N. Y.

Saunders, Clarence A., Ph.D. Died 1898.

### CLASS OF 1896

Ph.D.

Edmondson, Thomas W., Ph.D. Died 1927.
Edmondson, Thomas W., Ph.D., A.B. 1888
London, A.B. 1891 Cantab.; prof.; B. N.
Y. Univ., University Heights, N. Y. C.,
H. 141 Franklin Ave., Mt. Vernon, N. Y.
Scott, Colin A., Ph.D. Died 1927.
Slonaker, James R., Ph.D., Sc.B. 1893 Univ.
of Wis.; teacher; B. Stanford Univ.,
Palo Alto, Calif., H. 334 Kingsley Ave.,
Palo Alto, Calif. Bullard, Warren G., Ph.D. Died 1927.

Palo Alto, Calif.

Taylor, Samuel N., Ph.D., Ph.B. 1887 Wesleyan Univ.; head physics dept., Goucher Coll.; 2514 Maryland Ave., Baltimore, Md.

# CLASS OF 1897

Ph.D.

Boynton, William P., Ph.D., A.B. 1890 and A.M. 1893 Dartmouth Coll.; prof. physics, head of dept.; B. Univ. of Oregon, Eugene, Oreg., H. 267 11th Ave. E., Eugene, Oreg.

Dawson, George E., Ph.D., A.B. 1887 Univ. of Mich.; director psychological labora-tory, Springfield, P. S.; B. School Dept., Springfield, Mass., H. 426 Rogers Ave.,

W. Springfield, Mass.

Ellis, A. Caswell, Ph.D., A.B. 1894 Univ. of N. C.; director, Cleveland Coll. of Western Reserve Univ.; B. Cleveland

Coll., Cleveland, Ohio.

Lancaster, Ellsworth G., Ph.D., A.B. 1885 and A.M. 1888 Amherst Coll., LL.D. 1905 Colo. Coll.; prof. child and adolescent psychology, health education; B. Teachers Coll., Univ. of Fla., Gainesville, Fla., H. 152 S. Arredonda Ave., Gainesville,

Lindley, Ernest H., Ph.D., A.B. 1893 and A.M. 1894 Ind. Univ.; chancellor, Univ.

of Kans., Lawrence, Kans. Starbuck, Edwin, D., Ph.D., grad. 1890 Ind. Univ., grad. 1894 Harvard Univ.;

Univ. of Ia., Iowa City, Ia.

Stewart, Colin C., Ph.D., A.B. 1894 Univ. of Toronto; Brown prof. physiology; B. Dartmouth Coll. and Dartmouth Medical Sch., H. 21 E. Wheelock St., Hanover, N. H.

Wills, Albert P., Ph.D., B.E.E. 1894 and Sc.D. 1911 Tufts Coll.; prof. mathematical physics; B. Columbia Univ., N. Y. C.

# CLASS OF 1898

Ph.D.

Bolton, Frederick E., Ph.D., Sc.B. 1893 and Sc.M. 1896 Univ. of Wis.; prof. education and dean emeritus Sch. of Education; B. Univ. of Washington, Seattle, Wash.

Burk, Frederic, Ph.D. Died 1924. Colegrove, Frederick W., Ph.D. Died 1915. Curtis, Henry S., Ph.D., A.B. 1895 Yale Univ.; state director, hygiene and physical education; H. 1209 Elmerie Ave., Jef-

ferson City, Mo. Ferry, Frederick C., Ph.D., A.B. 1891 and A.M. 1894 Williams Coll., A.M. 1895 Harvard Univ., Sc.D. 1909 Colgate Univ., LL.D. 1917 Hamilton Coll., LL.D. 1917 Williams Coll., LL.D. 1921 George Washington Univ.; president; B. Hamilton Coll., Clinton, N. Y.

Guillet, Cephas, Ph.D., A.B. 1887 Victoria; asso. prof. romance languages; Ellon Coll., N. C.

Kline, Linus W., Ph.D., Sc.B. 1896 Harvard Univ.; prof. psychology and history of science; B. Skidmore Coll., Saratoga Springs, N. Y., H. 124 Circular St., Saratoga Springs, N. Y.

Phillips, Daniel E., Ph.D., A.B. 1892 and A.M. 1894 Univ. of Nashville, Litt.D. 1913 Univ. of Denver; head dept. psychology; B. Univ. of Denver, University

Park, Colo.

Rettger, E. W., Ph.D., grad. 1893 Ind. Univ.; B. Cornell Univ., Ithaca, N. Y., H. 3 Grove Pl., Ithaca, N. Y.

Street, J. Richard, Ph.D. Died 1920.

# CLASS OF 1899

Ph.D.

Crosswell, Thomas R., Ph.D., A.B. 1891 Bowdoin Coll.; real estate; B. 402 Na-

tional Bank Bldg, Glendale, Calif., H. 1336 Valley View Rd., Glendale, Calif. French, John S., Ph.D., A.B. 1895 Bowdoin Coll.; principal; B. New Hampton Literary Institution, New Hampton, N. H.

Goddard, Henry H., Ph.D., A.B. 1887 and A.M. 1889 Haverford Coll.; prof. Ohio State Univ.; H. 1638 Granville St., Columbus, Ohio.

Huey, Edmund B., Ph.D. Died 1913.Partridge, George E., Ph.D.: The Sheppard & Enoch Pratt Hospital, Townson, Md.

#### CLASS OF 1900

Ph.D.

Moreno, Halcott C., Ph.D., A.B. 1893 and A.M. 1894 Univ. of Ga.; Stanford Univ., Calif.

Sheldon, Henry D., Ph.D., A.B. 1896 and A.M. 1897 Stanford Univ.; dean; Sch. of Education, Univ. of Oreg., Eugene, Oreg. Slocum, Stephen E., Ph.D., B.E. 1897 Union

Coll.; 244 E. Montgomery Ave., Ardmore, Pa.

Small, Willard S., Ph.D., A.B. 1894 and A.M. 1897 Tufts Coll.; dean; B. Coll. of Education, Univ. of Md., College Park, Md., H. 1330 Irving St., N. W., Washington, D. C.

Thurber, Charles H., Ph.D., Ph.B. 1886 Cornell, A.M. 1890 Haverford Coll.; 87 Edgell Rd., Framingham Center, Mass.

Triplett, Normal, Ph.D., A.B. 1889 Ill. Coll. A.M. 1898 Ind. Univ.; State Normal

Sch., Emporia, Kans. Williams, Frank B., Ph.D., C.E. 1890 and Sc.M. 1893 Univ. of Mo.; prof. mathematics; B. Clark Univ., Worcester, Mass., H. 24 Loudon St., Worcester, Mass.

# CLASS OF 1901

### Ph.D.

Eby, Frederick, Ph.D., AB. 1895 and LL.D. 1921 McMaster Univ., (Canada); director of Summer School., prof. history and phil. of education; B. Univ. of Tex., Austin, Tex., H. 2401 Rio Grande St., Austin, Tex.

France, Clemens J., Ph.D., A.B. 1898 Hamilton Coll.; 1721 E. 63rd St., Seattle,

Wash.

Haslett, S. B., Ph.D. Died 1916.

Hylan, John P., Ph.D.; dairying; 97 William St., Stoneham, Mass.

Ives, James E., Ph.D., physicist, office of Industrial Hygiene and Sanitation; B. U. S. Public Health Service, Washington, D. C., H. 1705 Rhode Island Ave., N. W., Washington, D. C.
Keppel, Herbert G., Ph.D. Deceased.
Libby, M. F., Ph.D. Deceased.
Sears, Charles H., Ph.D., A.B. 1891 and A.M. 1893 and Ph.D. 1895 Allegheny

Coll.; teacher psychology and educa-tion; B. State Teachers Coll., Milwaukee, Wis., H. 834 Hackett Ave., Milwaukee,

Van der Vries, John N., Ph.D., A.B. 1896 and A.M. 1899 Hope, LL.D. 1923 Hope; manager, North Central Division, Chamber of Commerce of the United States; B. 607 First National Bank Bldg., Chicago, Ill., H. 968 Pine St., Winnetka, Ill.

# CLASS OF 1902

Ph.D.

Kinnaman, Andrew J., Ph.D. Died 1929. CLASS OF 1903

Ph.D.

Arnett, Lonna D., Ph.D., Sc.B., 1898 W. Va. Univ.; librarian; W. Va. Univ., Morgantown, W. Va.

Coffin, Joseph G., Ph.D., Sc.B. 1898 M. I. T.; research engineer; 420 Lexington Ave., N. Y. C. Kuhlmann, Fred, Ph.D., A.B. 1899 and A.M. 1901 Univ. of Nebr.; director, Re-search Bureau, Miner. St. Bd. of Con-

trol; 292 Macalester Ave., St. Paul, Minn. Swift, Edgar J., Ph.D., A.B. 1886 Amherst

Coll.; head of dept. psychology; B. Washington Univ., St. Louis, Mo., H. 5560 Cates Ave., St. Louis, Mo. Wells, Roy T., Ph.D., Sc.B. and Sc.M. 1898 Tufts Coll.; motor truck consultant; Holliston, Mass.

# CLASS OF 1904

Ph.D.

Browne, Charles E., Ph.D. Died 1908.

Bucke, W. Fowler, Ph.D., Ph.B. 1895 and
A.M. 1898 Dickinson Coll., Ph.D. 1908
Univ. of Wooster; educator, minister;
New Buffalo, Pa.

Clark, Arthur L., Ph.D., Sc.B. 1894 W. P. I.; prof. physics, dean of faculty of Applied Science; B. Queen's Univ., Kingston, Ont., Canada, H. 200 Albert St., Kingston, Ont., Canada.

Conradi, Edward, Ph.D., A.B. 1897 and A.M. 1898 Ind. Univ.; president; B. State Coll. for Women, Tallahassee, Fla., H. 458 West College Ave., Tallahassee, Fla.

Gates, Jesse N., Ph.D., A.B. 1897 and A.M.

1899 Northwestern; Lena, Ill.

Hubbard, John C., Ph.D., Sc.B. 1901 Univ. of Colo.; prof. physics; B. Johns Hopkins Univ., Baltimore, Md., H. Hopkins Apartments, St. Paul and 31st St., Baltimore, Md.

Morse, Josiah, Ph.D., A.B. 1899 and A.M. 1900 Richmond Coll.; B. Univ. of S. C.,

Columbia, S. C.

Mutchler, Fred, Ph.D., A.B. 1903 Indiana

Univ.; Bowling Green, Ky.

Trettien, Augustus W., Ph.D., A.B. 1899 Univ. of Wis.; prof. psychology, director of psychological laboratory; B. Toledo Univ., Toledo, Ohio, H. 3350 Gallatin Rd., Toledo, Ohio.

# CLASS OF 1905

A.B.

Allen, George E., A.B.; manager, Howe Scale Co.; B. 1424 W. 9th St., Cleveland, Ohio, H. 18430 Kinsman Blvd., Shaker Heights, Cleveland, Ohio.

Bender, William A., A.B.; chief chemist, Certo Division, General Foods Corp.; H. 116 Castlebar Rd., Rochester, N. Y.

Bowen, Sylvanus H., A.B.; 117 Stone Ave., Greenville, S. C.

Bramhall, Robert I., A.B., A.M. 1906; director, Mass. Division of the Blind; B. 110 Tremont St., Boston, Mass., H. 8 Summer St., Hopkinton, Mass.

Burch, Clarence A., A.B.; principal, Wuhu Academy; 201/1552 Ave. Joffre, Shanghai. China.

Burrage, Leslie M., A.B., Ph.M. 1910 Univ. of Chicago; asso. prof. French; 430 E. Foster Ave., State College, Pa.

Chisholm, William J., A.B.; head commercial dept.; B. B. M. C. Durfee H. S., Fall River, Mass., H. 239 High St., Fall River, Mass.

Cooke, Frederick N., Jr., A.B., A.M. 1906, director, legal dept. National Hdq. Boy Scouts of America, lecturer, Nat'l Train. Sch. for Boy Scout Executives; B. 2 Park Ave., N. Y. C., H. 105 N. Munn Ave., E. Orange, N. J.

Crowley, Andrew A., A.B. No address.

Cushman, Roy M., A.B.; exec. secretary; B. Boston Council of Social Agencies, 43 Tremont St., Boston, Mass., H. 282 Porter St., Melrose, Mass.

Cutter, Guy H., A.B. Died 1929.

Dessert, Nelson P., A.B.; c/o American Radiator Co., Mfg. Dept., Buffalo, N. Y. Disney, Charles E., A.B., A.M. 1907; teach-

er, High School of Commerce; H. 26 John St., Worcester, Mass.

Doherty, Francis M., A.B. Died 1926.

Easley, Philip A., A.B., B.D. 1908 Drew Semin.; rector, St. Stephen's Protestant Episcopal Church; B. 6129 Carlos Ave., Hollywood, Calif., H. 6125 Carlos Ave., Hollywood, Calif.

Edmands, Charles F. W., A.B.; teacher, Brown Prep. Sch.; H. 732 North 19th

St., Philadelphia, Pa.

Estabrook, Arthur H., A.B., A.M. 1906, Ph.D. 1910 Johns Hopkins Univ.; investigator, American Society for the Control of Cancer; B. 25 W. 43rd St., N. Y. C., H. 1 Bank St., N. Y. C.

Ewing, John G., A.B.; The Perkins Schools,

Lancaster, Mass.

Fox, Michael B., A.B., M.D. 1909 Harvard Univ.; H. 20 Otsego Rd., Worcester, Mass.

Gale, Frank H., A.B.; salesman steel lockers, shelving, cabinets, and electric re-frigeration; B. Narragansett Machine Co., Pawtucket, R. I. H. 78 North Bend St., Pawtucket, R. I.

Garbutt, J. Ralph, A.B.; real estate and insurance; B. 507 Main St., Worcester, Mass., H. 11 Underwood St., Worcester,

Mass.

Gates, Burton N., A.B., A.M. 1906, Ph.D. 1909: Mass. State Inspector of Apiaries; personal business dealer in antiques and books for collectors; B. 136 State House, Boston, Mass., H. 24 Charlotte St., Worcester, Mass.

Glazier, Philip N., A.B.; textile cost accountant; H. Salem Center, N. H.

Greelish, Devney J., A.B.; accountant, General Motors Corp.; 327 8th St., Brook-

lyn, N. Y.

Greenwood, Robert B., A.B.; insurance;
75 Central St., Winchendon, Mass.

Harrington, Berton B., A.B.; business; Winchendon, Mass.

Ph.D. 1915; physicist; B. Bureau of Standards, Washington, D. C., H. 3022 Porter St., N. W., Washington, D. C. Keith, William H., A.B., A.M. 1906; Under-

writer's Bureau; Brow Vale Dr., Little Neck Hills, L. I., N. Y.

Keneely, Ralph S., A.B.; merchant, retail shoes; B. 192 Main St., Reading, Mass., H. 32 Woburn St., Reading, Mass.

Leland, Leslie P., A.B., M.D. 1909 Boston Univ.; physician; B. Medical Arts Bldg., 36 Pleasant St., Worcester, Mass., H. 14 S. Lenox St., Worcester, Mass.
Lingley, Ralph G., A.B.; city engineer; B.

33 City Hall, Worcester, Mass., H. 9 Hadwen Lane, Worcester, Mass.

Madden, Leon I., A.B., M.D. 1910 Harvard Univ.; B. 57 Pratt St., Hartford, Conn., H. 234 N. Beacon St., Hartford, Conn.

Miller, Allan B., A.B.,; real estate and lumber; H. 55 Midland St., Worcester, Mass.

Miller, Charles W., A.B., A.M. 1913 and Ph.D. 1923 Columbia Univ.; principal, Normal Training Institution, Pasumalai, Madura District, S. India.

Minsch, Walter C., A.B.; c/o Minas del Tajo, Rosario, Sinaloa, Mexico.

Parker, Waldo D., A.B., A.M. 1909 Univ. of Mich.; director; B. Country Center Missions, Bucks County, Pa., H. 200 S. Bellevue Ave., Langhorne, Pa.

Ryan, Edward A., A.B., LL.D. 1908 Boston Univ.; lawyer; 34 Dayton St., Worcester,

Mass.

Schürman, Harry, A.B., A.M. 1906; 10 Peters St., Mayence, Germany,

Slobin, Hermon L., A.B., Ph.D. 1908; B.

Univ. of N. H., Durham, N. H.
Smith, Howard M., A.B.; H. 128 Marine
Ave., Brooklyn, N. Y.
Walsh, Frederic W., A.B. Died 1913.

Webb, Reginald L., A.B., A.M. 1906; 63 Beach Ave., Swampscott, Mass.

Wingate, Harold C., A.B.; supt. schools; B. Scituate, Mass., H. Egypt, Mass.

# A.M.

Haynes, Rowland, A.M., A.B. 1902 Williams Coll.; secretary; B. Univ. of Chicago, Chicago, Ill., H. 5745 Blackstone Ave., Chicago, Ill.

# Ph.D.

Allen, Reginald B., Ph.D., Sc.B. 1893 and Sc.M. 1897 Rutgers Coll.; Kenyon Coll.,

Gambier, Ohio.

Gowen, Benjamin S., Ph.D., A.B. 1901 and A.M. 1902 Yale Univ.; prof. philosophy, Los Angeles Private Jr. Coll.; 1001 Vista

St., Hollywood, Calif.

Libby, Walter, Ph.D., A.B. 1887 Victoria Univ., A.M. 1902 Univ. of Toronto; author, see Who's Who in America, American Men of Science, etc.; 494

Huron St., Toronto, Ontario, Canada.

Lowden, Thomas S., Ph.D., A.B. 1893 Thiel
Coll., A.M. and Ph.D. 1895 Wooster
Univ.; 317 W. Sixth Ave., Columbus,

Ohio.

Small, Maurice H., Ph.D., A.B. 1887 Colby Univ.; principal; B. Wilson Jr. H. S.,

Appleton, Wis

Terman, Lewis M., Ph.D., A.B. and A.M. 1903 and LL.D 1929 Ind. Univ.; prof. psychology and executive head of dept.; B. Stanford Univ., Calif., H. 761 Dolores

St., Stanford University, Calif. Waddell, Charles W., Ph.D., A.B. 1901 and A.M. 1903 Colo. Coll.; prof. education and director of training schools, Univ. of Calif., at Los Angeles; B. 405 Hilgard Ave., Los Angeles, Calif., H. 10630 Lindbrook Dr., W. Los Angeles, Calif.

# CLASS OF 1906

#### A.B.

Bacon, Charles W., A.B., A.M. 1907, Ph.D. 1911; chemist; B. U. S. Dept. of Agriculture, Bureau of Plant Ind., Washington, D. C., H. 1139 12th St., N. W., Washington, D. C.

Baldwin, Francis M., A.B., A.M. 1907, Ph.D. 1917 Univ. of Ill.; prof. zoology; B. Univ. of Southern California, Univer-

sity Ave., Los Angeles, Calif.

Belisle, Ferdinand J., A.B.; general insurance; B. 405 Main St., Worcester, Mass. H. 10 Bishop Ave., Worcester, Mass.

Coghlan, Samuel R., A.B.; consulting engineer; H. Apt. 308, 101 Point Lobos

Ave., San Francisco, Calif.

Day, Alexander A., A.B., M.D. 1911 Har-vard Univ.; prof. bacteriology, North-western Univ. Medical Sch.; B. 303 E. Chicago Ave., Chicago, Ill., H. 2326 E. 70th Pl., Chicago, Ill.

Evans, William W., A.B., A.M. 1915 Yale Univ.; clergyman; B. First Congregational Church, Warehouse Point, Conn.

Gage, George E., A.B., A.M. 1907 and Ph.D. 1909 Yale Univ.; prof. and head dept. bacteriology and physiology; B. Mass. Agricultural Coll., Amherst, Mass. Hadley, Stephen D., A.B.; lawyer; 48 Rhodes Ave., Akron, Ohio.‡

Jewett, Stephen P., A.B.; 129 East 30th St., N. Y. C.

Marble, Henry C., A.B., M.D. 1910 Harvard Univ.; surgeon; B. 270 Commonwealth Ave., Boston, Mass., H. 15 Crystal St., Newton Center, Mass.

Nickerson, Carlton B., A.B., A.M. 1907; prof. chemistry; Dalhousie Univ.; Halifax N. S.

Osborn, Willard L., A.B., clergyman; Charlton City, Mass.

Peckham, Albert J., A.B.; div. com'l supt., Mich. Bell Telephone Co.; 7 Fountain St., N. E., Grand Rapids, Mich. Stevenson, Timothy J., A.B., A.M. 1907; teacher: B. South, H. S. Worcester

teacher; B. South H. S., Worcester, Mass., H. 29 Tirrell St., Worcester, Mass. Wakefield, Jerry M., A.B.; 10 Stanford Pl., Montclair, N. J.

# A.M.

Baron, Albert H. N., A.M., A.B. 1904 Univ.

of Colo.; 237 Beach 141st St., Belle Harbor, L. I., N. Y.

Bramhall, Robert I., A.M.†

Cooke, Frederick N., Jr., A.M.†

Drowne, George L., A.M., Ph.B. 1898

Brown Univ.; clergyan; B. St. Paul's

Rectory, Plainfield, Conn. Estabrook, Arthur H., A.M.† Gates, Burton N., A.M.† Harrington, Elmer A., A.M.† Keith, William H., A.M.†

Lyford, C. Allan, A.M., Sc.B. 1903 W. P. I.; chemical engineer; B. National Aniline and Chemical Co., Buffalo, N. Y., H. 111 S. Grove St., East Aurora, N. Y. Schürman, Harry, A.M.;

Webb, Reginald L., A.M.†

# Ph.D.

Bailey, Frank K., Ph.D. Died 1909. Bock, William F., Ph.D., A.B. 1900 Ind. Univ.; head dept. psychology; B. Ind. Univ., Bloomington, Ind., H. 516 N. Fess Ave., Bloomington, Ind.

Borquist, Alvin, Ph.D., Sc.B. 1897 Univ.

of Utah.‡

Cleveland, Alfred A., Ph.D., A.B. 1898 and A.M. 1903 Univ. of Oreg.; dean, Sch. of Education; B. State Coll. of Wash., Pullman, Wash., H. 1909 Monroe St., Pullman, Wash.

Duncan, Frederick N., Ph.D., A.B. 1900 and A.M. 1901 Ind. Univ.; Flat Rock, Ill.

Gessell, Arnold L., Ph.D., Ph.B. in Ped. 1903 Univ. of Wis., M.D. 1915 Yale Univ.; prof. child hygiene and director of Yale Psycho-Clinic, Yale University; B. 52 Hillhouse Ave., New Haven, Conn., H. 185 Edwards St., New Haven, Conn. Gibbs, David, Ph.D., Sc.B. 1898 Harvard Univ.; educational writing; H. Rogers Lake, Old Lyme, Conn.

Hitchcock, Albert W., Ph.D. Died 1907. Jewell, James R., Ph.D., A.B. 1903 Coe Coll., LL.D. 1927 Univ. of Ark.; dean, Sch. of Education; B. Oreg. State Coll., Corvallis, Oreg., H. 21 23rd St., Cor-

vallis, Oreg. **Kuma, Toshi Yasu,** Ph.D., A.B. 1903 Leland Stanford Univ.; 55 Sendagayn,

Tokyo, Japan.

Myers, George E., Ph.D., A.M. 1901 Univ. of Chicago; prof. vocational education and guidance; B. Univ. of Mich., Ann Arbor, Mich.

Porter, James P. Ph.D., A.B. 1898 and A.M. 1901 Ind. Univ.; prof. Univ. of Ohio; H. 165 N. Congress St., Athens,

Ohio.

Rood, James T., Ph.D., Sc.B. 1898 W. P. I.; prof. electrical engineering and consulting engineer; Rm. 204, Eng. Bldg., Univ. of Wis., Madison, Wis.

# CLASS OF 1907

# A.B.

Asher, Jacob, A.B., LL.B. 1910 Columbia Univ.; special justice and lawyer; B. 390 Main St., Worcester, Mass., H. 99 Coolidge Rd., Worcester, Mass.

Bartlett, Elwin I., A.B. Deceased. Felton, Leon E., A.B., LL.B. 1910 Harvard Univ.; register of Probate Court of Worcester County; B. 1 Court House, Worcester, Mass., H. 11 Wetherell St., Worcester, Mass.

Friedman, Albert M., A.B.; 3 Chapin St.,

Worcester, Mass.

Greenwood, Rolland R., A.B., A.M. 1908; teacher; B. North H. S., Worcester, Mass., B. 7 Dean St., Worcester, Mass.

Hillman, Archibald M., A.B., LL.B. 1910 Harvard Univ.; attorney; B 390 Main St., Worcester, Mass., H. 6 Hadwen Lane,

Worcester, Mass.

Hunt, Robert B., A.B., M.D. 1912 Harvard Univ.; physician; B. 270 Commonwealth Ave., Boston, Mass., H. 250 Mystic Valley Parkway, Arlington, Mass.

King, Charles H. S., A.B., Ph.D. 1925 Univ. of C.; head of German dept.; B. Reed Coll., Portland, Oreg., H. 1100 Carlton Ave., Portland, Oreg.

Macklin, Paul M., A.B.; vice-pres. Wickwire-Spencer Co.; 41 East 42nd St., N.

Y. C.

Mann, Henry C., A.B.; hardware and plumbing, Taylor & Mann; Woodsville, N. H. Mirick, George H., A.B.; lawyer; B. 340 Main St., Worcester, Mass., H. 7 Oberlin St., Worcester, Mass.

Montgomery, William J., A.B., A.M. 1908, Ph.D. 1911. Died 1915.

Phelps, Lyman B., A.B.; teacher of science; B. Central H. S., Springfield, Mass., H. 108 Calhoun St., Springfield, Mass. Phillips, Charles L., A.B.; clergyman;

Pyeng Yang, Chosen, Japan.

Quimby, Howard L., A.B.; physician; 79

Middle St., Gloucester, Mass.

Westerberg, Iwar S., A.B., A.M. 1908 Harvard Univ., Ph.D. 1923 Univ. of Wash.; director, Sch. of Education; B. Univ. of Redlands, Redlands, Calif., H. 924 Campus Ave., Redlands, Calif.

#### A.M.

Bacon, Charles W., A.M.† Baldwin, Francis M., A.M.†

Baldwin, Francis M., A.M.†
Broene, Johannes, A.M., B.Pd. 1906 Valparaiso Univ.; teacher; c/o Prof. Albert Broene, Calvin Coll., Grand Rapids, Mich. Disney, Charles E., A.M.†
Dixon, Edith M., A.M., A.B. 1906 Vassar Coll.; director, child study; B. 14 City Hall, Worcester, Mass., H. 20 Wetherell St., Worcester, Mass.
Ellison, Louis (See Ordahl, Mrs. George)
Nickerson. Carlton B., A.M.†

Nickerson, Carlton B., A.M.†

Ordahl, Mrs. George (Ellison, Louise), A.M., Ph.D. 1909, A.B. 1906 Washington Univ.; teacher, psychology and director of psychological research; B. Santa Rosa Jr. Coll., Eldridge, Calif.

Osborne, Caroline A., A.M., Ph.D. 1908.

Deceased.

Stevenson, Timothy J., A.M.†

Watanabe, Jun, A.M., grad. 1905 (coll. course) Keiogizukee Univ.; 55 Shimotakanawa, Tokyo, Japan.

# Ph.D.

Anderson, Lewis F., Ph.D., A.B. 1893 and A.M. 1902 Univ. of Toronto; prof. Ohio State Univ.; B. 204 Education Bldg., Ohio State Univ., Columbus, Ohio, H.

1490 Arlington Ave., Columbus, Ohio. Brittain, Horace L., Ph.D., A.B. 1895 and A.M. 1898 Univ. of New Brunswick; Bureau of Municipal Research, 189 Church St., Toronto, Ontario, Canada. Copeland, William F., Ph.D., Ph.B. 1902 and Ph.M. 1903 Ohio Univ.; Ohio Univ.,

Athens, Ohio.

Dellinger, Oris P., Ph.D., A.B. 1904 Ind.
State Normal; State Normal Sch., Pittsburg, Kans.

Hill, David S., Ph.D., A.B. 1897 Randolph-Macon Coll., LL.D. 1916 Univ. of Ky., LL.D. 1919 Univ. of Ariz.; president; B. Univ. of Ala., University, Ala.

Stebbins, George E., Ph.D., A.B. 1903 Bates Coll.; patent attorney; Farmers Bank

Bldg., Pittsburgh, Pa.

Story, William E., Jr., Ph.D., A.B. 1904
Harvard Univ.; 17 Hammond St., Wor-

cester, Mass.

# CLASS OF 1908

#### A.B.

Chaffee, Reginald R., A.B., A.M. 1910 Harvard Univ.; forest engineer, Wheeler and Dusenbury, B. Endeavor Forest Co., H. 34 Miller Ave., Chautauqua, N. Y.

Dean, Ernest W., A.B., A.M., 1912 and Ph.D. 1914 Yale Univ.; chemist; B. Standard Oil Co. of N. J., Room 707, 26 Broadway, N. Y. C., H. 140 Stanmore Pl., Westfield, N. J.

Everett, Lewis W., A.B.; treasurer; Channing Smith Textile Corp., H. 40 Holman St., Shrewsbury, Mass.

Handy, LeRoy M., A.B., A.M. 1924; teacher; B. South H. S., Worcester, Mass., H. 835 Main St., Worcester, Mass.

Hastings, W. Glidden, A.B., ScF. M. 1910

Hastings, W. Gidden, A.B., Scr. M. 1910
Univ. of Mich.; valuation engineer; 528
Republic Bldg., Seattle, Wash.
Hubbard, Edward, Jr., A.B.; civil engineer, Bureau of Water Works and Supply, City of Los Angeles, Dept. of Water and Power; B. Room 706, 207
South Broadway, Los Angeles, Calif., H. 2016 West 73rd St., Los Angeles, Calif. Calif.

Larned, John H., A.B.; sales executive, Major, Air-Reserve, U. S. Army, Gen-eral Staff Eligible List; B. Henry Disston & Sons, Inc., Philadelphia, Pa., H. 8728 Germantown Ave., Chestnut Hill, Philadelphia, Pa.

Lewis, Earl S., A.B.; Eastern Massachusetts Representative, Scott, Foresman & Co., textbook publishers; B. 172 High-

land Ave., Arlington, Mass.

Lindsay, Julian L., A.B., A.M. 1910 Harvard Univ.; Univ. of Vt., Burlington, Vt. Millea, William L., A.B.; 1020 N. Calvert

St., Baltimore, Md. Mills, Owen W., A.B., A.M. 1909. Died 1924.

Moriarty, George F., A.B.; teacher; B. High School of Commerce, Worcester, Mass., H. 12 Somerset St., Worcester, Mass.

Power, Thomas F., A.B., A.M. 1909; 10

Tufts St., Worcester, Mass.‡

Richardson, Carlton E., A.B., A.M. 1909;
teacher; B. High School of Commerce,
Worcester, Mass., H. 87 May St., Worcester, Mass.

Rockwood, Robert E., A.B., Ph.D. Harvard Univ.; Ohio State Univ., Columbus. Ohio.

21

Wright, Clarence D., A.B., A.M. 1909, Ph.D. 1911; chemist, Food and Drug Administration; B. U. S. Dept. of Agriculture, Washington, D. C., H. 4620 30th St., N. W., Washington, D. C.

# A.M.

Arnos, Edward M., A.M., Sc.B. 1907 Lima Coll.; finance business; B. 837 Ohio Bldg., Toledo, Ohio, H. 423 W. Central Ave., Toledo, Ohio.

Toledo, Ohio.

Beeson, William J., A.M., Sc.B. 1896 and Sc.M. 1897 Ala. Poly. Inst.; Edison Jr. H. S.; B. 6500 Hooper Ave., Los Angeles, Calif., H. 218 West 107th St., Los Angeles,

Calif.

Chidester, Floyd E., A.M., Ph.D. 1911, Ph.B. 1907 Syracuse Univ.; prof. zool-

ogy; W. Va. Univ., Morgantown, W. Va. Curtis, Elnora W., A.M., Ph.D. 1910, A.B. 1892 Smith Coll.; H. 161 Burncoat St.,

Worcester, Mass.

Greenwood, Rolland R., A.M.†

Helie, Euclid, A.M., A.B. 1905 McMaster
Univ.; Colby Coll., Waterville, Me.

Lie, Olaf K., A.M. Died 1914.

Montgomery, William J., A.M.†

McIndoo, J. M., A.M., Ph.D. 1912; 1607

South University Ave., Ann Arbor,
Mich Mich.

McNamara, Frank P., A.M., A.B. 1907 Holy Cross Coll.; teacher, mathematics; B. North H. S., Worcester, Mass., H. 40 Chamberlain Parkway, Worcester, Mass. Porter, Thomas L., A.M., Ph.D. 1910. Died

1926.

Russell, James A., A.M., A.B. 1907 Holy

Cross Coll.; head master; B. N. Walpole H. S., N. Walpole, N. H.

St. John, Edward P., A.M., Pd.M. 1908
New York Univ., S.T.D. 1924 Syracuse
Univ.; dean and prof. religious education, Sch. of Religious Education of Auburn Theol. Semin.; B. 104 North St., Auburn, N. Y., H. 98 North St., Auburn, N. Y.

Siddell, William G., A.M., A.B. 1902 Syracuse Univ.; accountant, specializing in preparation of documents in connection with shipments to all foreign countries; B. Bailey Meter Co., 1050 Ivanhoe Rd., Cleveland, Ohio, H. 16908 Euclid Ave., Cleveland, Ohio.

Steves, George H., A.M., Ph.D. 1910, A.B. 1905 Univ. of Mich.; registrar; Univ.

of Mich., Pulaski, Mich.

Wallace, Edith M., A.M., A.B. 1903 Mt. Holyoke Coll.; research assistant and scientific artist; B. Dept. of Biology, Calif. Institute of Technology, Pasadena, Calif., H. 420 S. Lake Ave., Pasadena, Calif.

#### Ph.D.

Coffin, Ernest W., Ph.D., A.B. 1902 Dalhousie; principal, and instr. in educational psychology and principles of education; B. Normal School, Calgary, Alberta, Canada, H. 1846 14th St., W., Cal-

gary, Alberta, Canada.

Davis, Herbert B., Ph.D. Died 1928.

Easley, Charles W., Ph.D. Died 1929.

Gard, Willis L., Ph.D., A.B. 1896 and A.M.
1907 Ind. Univ.; B. State Normal Coll., Ohio Univ., Athens, Ohio.

Harris, James W., Ph.D., A.B. 1901 Union;

Coll. of the Pacific, Stockton, Calif. Miller, Newton, Ph.D., A.B. 1905 Ind. Univ.;

Porterville, Calif.

Misawa, Tadasu, Ph.D., grad. 1904 Tokio Univ.; Kozu Middle School, Osaka, Japan.

Ordahl, George, Ph.D., B.S. 1899 Valparaiso Coll., A.B. 1905 and A.M. 1906 Univ. of Oreg.; clinical psychologist; Box 11, Eldridge, Calif.

Osborne, Caroline A., Ph.D.†

Prager, William L., Ph.D., Sc.B. 1900 Coll. of the City of New York, Sc.M. 1904 New York Univ.; B. Coll. of the City of New York, N. Y. C.

Slobin, Hermon L., Ph.D.†

White, Jesse H., Ph.D., A.B. 1903 and A.M. 1904 Univ. of Ind.; prof. psychology and head dept.; B. Univ. of Pittsburgh, Pittsburgh, Pa., H. 210 Darragh St., Oakland Station, Pittsburgh, Pa.

# CLASS OF 1909

#### A.B.

Arnold, Fred M., A.B.; business; 126 Chestnut St., Philadelphia, Pa.

Barrows, George M., A.B., A.M. 1910; lawyer; B. 410 Main St., Fitchburg, Mass., H. 55 Pleasant St., Ayer, Mass.

Bent, Arnold A., A.B.; chair mfg.; B. 60 Mill St., Gardner, Mass., H. 21 Kendall

St., Gardner, Mass.

Bivin, George D., A.B., A.M. 1910, Ph.D.
1913; Univ. of Chicago; 1415 E. 57th
St., Chicago, Ill.

Bond, Otto F., A.B., A.M. 1912 Ohio State Univ.; prof. romance languages; B. Univ. of Chicago, Chicago, Ill.

Boynton, Clarence N., A.B., A.M. 1910 Yale Univ.; chemist and bacteriologist, pathological laboratory, secretary of laboratory; B. 320 Goodrich Bldg., Phoenix, Ariz., H. 1838 Palmeroft Dr., N. W., Phoenix, Ariz.

Bumpus, Samuel F., A.B.; field personnel secretary, State Y. M. C. A. Executive Committee; B. 167 Tremont St., Boston, Mass., H. 82 Hillside Ave., Melrose, Mass.

Carr, Roland P., A.B.; teacher mathematics and orchestra director; B. Public School No. 42, Bronx, N. Y. C., H. 43 S. 8th Ave., Mt. Vernon, N. Y.

Chase, Howard E., A.B.; vice-president and sales manager; B. W. H. Claffin & Co., Inc., 340 Summer St., Boston, Mass., H. 4 John St., Westboro, Mass.

Clarke, Edwin L., A.B., A.M. 1911, Ph.D.

1916 Columbia Univ.; prof. sociology; B. Rollins Coll., Winter Park, Fla.

Clare, Edward W., A.B., A.M. 1910; manager; B. W. T. Grant Co., 141 North St., Pittsfield, Mass., H. 233 Dawes Ave., Pittsfield, Mass.

Curtis, Charles S., A.B.; medical officer, charge of St. Anthony's Hospital; c/o Grenfell Mission, St. Anthony, Newfoundland.

**Davis, Clarence O.,** A.B. Deceased.

Davis, Glenn M., A.B., A.M. 1924 Harvard Univ.; head French dept.; B. Albany H. S., Albany, N. Y., H. 111 S. Lake Ave., Albany, N. Y.

Dilts, Howard K., A.B.; Capt. U. S. A.; H. 1814 Flagler Ave., Atlanta, Ga.

Foley, Walter S., A.B., A.M. 1910. Died

1918.

Grace, Charles W., A.B. Deceased.

Hughes, John L., A.B., A.M. 1910; asst. prof. chemistry; B. Agricultural Coll., Storrs, Conn.

Kallom, Arthur W., A.B., A.M. 1910; head dept. research, Boston City Schools; B. 15 Beacon St., Boston, Mass., H. Washington St., R. F. D. 26, Foxboro, Mass.

Karlson, Karl J., A.B., A.M. 1910, Ph.D. 1912; dean, Bethel Theological Semin.; B. 1492 N. Snelling Ave., St. Paul, Minn.

Kelley, Charles B. L., A.B., A.M. 1916 Harvard Univ.; teaching; B. 150 Albany Ave., Brooklyn, N. Y

Lanphear, B. Woodward, A.B.; missionary in educational work and Mission Sta-tion treasurer and business manager; American Church Mission, Lion Hill, Wuhu, Anhui Province, China.

Le Sure, Harvey K., A.B.; master mechanic, Penn. Railroad; H. 3910 Bayside Blvd., Bayside, N. Y

Mackinnon, Clinton N., A.B., A.M. 1911 Yale Univ.; prof. English; B. Ohio Univ., Athens, Ohio.

Nagle, Ashley R., A.B.; 88 Chatham St., Worcester, Mass.‡

Parker, Lester S., A.B.; teacher Jefferson

Jr. H. S., Rochester, N. Y.; "Side Line" Tallyho Tavern, Geneseo, N. Y.; H.

Geneseo, N. Y.
Patterson, Thomas L., A.B., A.M. 1911 Kans. City Univ., Sc.M. 1915 and Ph.D. 1920 Univ. of Chicago; prof. physiology; B. Detroit Coll. of Medicine and Surgery, 1516 St. Antoine St., Detroit, Mich., H. 4049 Pasadena Ave., Detroit, Mich.

Phelan, William F., A.B., A.M. 1925 Harvard Univ.; teacher, French and Spanish; B. Jamaica H. S., Jamaica, N. Y. C., H. 41-08 Parsons Blvd., Flushing, L. I., N. Y.

Shedd, Clarence P., A.B., A.M. 1914, B.D. 1925 Yale Univ.; asso. prof.; B. Yale Divinity Sch., New Haven, Conn., H. 94 Swarthmore St., New Haven, Conn.

Sheehan. Thomas W., A.B.; teacher:

Sheehan, Thomas W., A.B.; Natick, Mass. teacher;

Smith, N. A. C., A.B.; supt. of U. S. Pet. Exp. Sta.; B. U. S. Bureau of Mines, Bartlesville, Okla.

Styles, Edmund D., A.B.; dept. manager Chas. A. Schiere Co., leather business; 60 Brixton Rd., Garden City, N. Y.

#### A.M.

Bruner, Jesse, A.M., A.B. 1907 Ind. Univ.; high school principal; Mentone, Ind. Butman, Chester A., A.M. No address.

Carroll, Charles S., A.M., A.B. 1908 Holy Cross Coll.; 70 Swarthmore Rd., Brighton, Mass.

Chase, Mrs. Harry W. (Crum, Lucetta), A.M.; Univ. of N. C., Chapel Hill, N. C.

Conklin, Edmund S., A.M., Ph.D. 1911, B.H. 1908 Y. M. C. A. Springfield; prof. psychology; B. Univ. of Oreg., Eugene, Oreg., H. 1310 Emerald St., Eugene, Oreg.

Crum, Lucetta (See Chase, Mrs. Harry W.) Dowd, John E., A.M., A.B. 1905 Holy Cross Coll.; 73 Delwood Rd., Kenmore, N. Y.

Downey, Helen M., A.M., A.B. 1908 Wellesley Coll.; teacher, North H. S.; 29 West St., Worcester, Mass.

Hinshaw, Mrs. Augusta W. (Wiggam, Augusta), A.M., A.B. 1908 Emporia Coll.; magazine writer (non-fiction); H. Westtown, Pa.

Kanda, Sakyo, A.M.; biological laboratory, Imperial Univ., Kyushu, Fukuoka,

Japan.

Kaylor, M. Albertus, A.M., Pd.B. 1907 Valparaiso Univ.; teacher; 161 Flower St., Huntington Park, Calif

Kranz, Anna L. (See Odum, Mrs. Howard W.)

Matheny, William A., A.M., Ph.D. 1911,

Ph.B. 1908 Ohio Univ.; Ohio Univ., Athens, Ohio.

Mills, Owen W., A.M.†

McCurdy, James H., A.M., M.P.E. 1907 Y. M. C. A., M.D. 1893 New York Univ. Med. Sch.; Y. M. C. A. Secretary; 470 E. 161st St., N. Y. C. Nakamura, Yasuma, A.M. c/o Messrs. Samuel, Samuel & Co., Ltd., Dairen,

Manchuria.

Odum, Mrs. Howard W. (Kranz, Anna L.), A.M.; Chapel Hill, N. C. Power, Thomas F., A.M.;

Richardson, Carlton E., A.M.† Salmon, John J., A.M., A.B. 1895 Holy Cross Coll.; master; B. Morse Grammar Sch., Cambridge, Mass.

Wiggam, Augusta (See Hinshaw, Mrs. Augusta W.).

Wright, Clarence D., A.M.†

# Ph.D.

Bobbitt, John F., Ph.D., A.B. 1901 Ind.; Univ. of Chicago, Chicago, Ill.

Gates, Burton N., Ph.D.;

Ishizawa, Kyugoro, Ph.D., grad. 1898 Waseda Univ. (Japan), LL.B. 1900 Chino Univ., A.M. 1904 Ia. State Univ., A.M. 1907 Univ. of Wis.; Bankers Club, Maru-

Nakise, Hikozo, Ph.D., grad. 1901 Tokio Imperial Univ. (lost).

Magni, John A., Ph.D., A.B. 1891 Central Univ. of Ia., A.M. 1894 Univ. of Mich.; 223 Salisbury St., Worcester, Mass.; Odum, Howard W., Ph.D., A.B. 1904 Emory, A.M. 1906 Univ. of Miss., Ph.D. 1910 Columbia Univ.; Kenan prof. sociology, director, Institute for Research ciology, director, Institute for Research in Social Science, director, Sch. of Public Welfare; B. Univ. of N. C., Chapel Hill, N. C.

Rowe, Eugene C., Ph.D., A.B. 1897 Olivet Coll.; teacher and head of dept. psychology and education; B. Central State Teachers Coll., Mt. Pleasant, Mich., H.

514 S. Main St., Mt. Pleasant, Mich. Willcox, Inman L., Ph.D., A.B. 1886 Hamilton Coll., A.M. 1900 Harvard Univ.; 761 Lawrence Ave., E. Aurora, N. Y.

# CLASS OF 1910

# A.B.

Baldwin, Ralph W., A.B.; B. New Way Laundry Co., 4809 Aspen St., Philadelphia, Pa., H. 8 Saxer Ave., Springfield,

Delaware County, Pa.

Barker, Byron W., A.B.; teacher, English;
B. Bangor H. S., Bangor, Me., H. 50
Fling St., Brewer, Me.

Cross, Joseph P., A.B.; drug business;
Huntington, Mass.

Cutler, Harold J., A.B., D.M.D. 1915 Harvard Univ. Dental Sch.; dentist; B. 47 Bay State Rd., Boston, Mass., H. 15 Stevens Rd., Needham, Mass.

Dolan, Edward J., A.B.; teacher, mathematics; B. High School of Commerce,

Worcester, Mass.

Dodge, Henry A., A.B., LL.D. 1913 Boston Univ.; attorney; B. Bank Building, Littleton, N. H., H. 14 Clan St., Little-

ton, N. H.

Donnell, Philip S., A.B., M.E.E. 1915 Harvard Univ.; dean, Division of Engineering; B. Okla. A. & M. Coll., Stillwater, Okla., H. 1221 W. 3rd St., Stillwater, Okla.

Earle, Edward, A.B.; yachting editor; B. Boston Herald, Sports, Boston, Mass., H. 32 Shepard St., Cambridge, Mass.

- Fallon, Perlie P., A.B., LL.D. Columbia Univ.; lawyer; B. 27 Cedar St., N. Y. C., H. 110 Alexander Ave., White Plains, N. Y.
- Fay, William J., A.B., M.D. 1914 Harvard Univ.; surgeon; B. 179 Allyn St., Hartford, Conn., H. 162 Collins St., Hartford, Conn.

Fenner, Harold L., A.B.; principal; B. Classical H. S., Worcester, Mass., H. 60 Copperfield Rd., Worcester, Mass.

Fletcher, Rollo F., A.B.; asst. manager; B. Clark and Brewer Teachers' Agency, 64 E. Jackson Blvd., Chicago, Ill., H. 259 S. Myrtle Ave., Villa Park, Ill.

Foster, James K., A.B., LL.B. 1913 Albany

Law Sch.; lawyer; B. 50 Court St., Brooklyn, N. Y., H. 19 Wellington Rd., Garden City, N. Y.

Fuller, Harold F., A.B., A.M. 1911; commercial training, supervisor; B. N. J. Bell Telephone Co., Newark, N. J., H. 26 Ansale Terrace, E. Orange, N. J.

Haskins, Henry S., A.B.; New England Representative, J. B. Lippincott Co., publishers; H. Shrewsbury, Mass.

Hearn, George D., A.B.; teacher, botany and chemistry; B. Classical H. S., Worcester, Mass., H. 15 Gates St., Worcester, Mass.

Hinkley, Irving A., A.B., A.M. 1911; attorney; H. Lancaster, N. H.Holt, Howard A., A.B. No address.

Howes, Roy Francis, A.B., A.M. 1912 Leland Stanford Univ., LL.B. 1926 Cornell Univ.; prof, law; B. Univ. of Miami, Coral Gables, Fla., H. 5526 San Vincente St., Coral Gables, Fla.

Hubley, Gordon A., A.B. Died 1921.

Kadesch, J. Stevens, A.B.; headmaster, Medford H. S., Medford, Mass., instr. secondary education, Boston Univ., Boston, Mass., H. 5 Chestnut St., Medford,

Lurier, Israel, A.B. Died 1923.

Luther, Robert H., A.B.; insurance; B. 3012 Book Tower, Detroit, Mich., H. 7567 Hanover Ave., Detroit, Mich.

Mackay, George W., A.B., A.M. 1911; principal and teacher; B. Tamsui Middle School, Tamsui, Formosa, Japan.

Marshall, Daniel J., A.B. Died 1924.

Millea, John E., A.B., M.B.A. 1914 Harvard Univ.; dean; B. Babson Institute, Babson Park, Mass., H. 29 Rowe St., Auburndale, Mass.

Monat, Achilles H., A.B.; business; 38

Franklin St., Worcester, Mass

Morrow, Curtis H., A.B., A.M. 1911, Ph.D. 1927; prof. economics and sociology and head of dept.; B. Colby Coll., Waterville, Me., H. 3 West Court, Waterville, Me.

Perley, Donald, A.B. Died 1910.

Powers, Wallace, F., A.B., A.M. 1911, Ph.D 1914; prof. physics and head of dept., B. Mass., Agricultural Coll., Amherst, Mass., H. 10 Fearing St., Amherst, Mass.

Ramsdell, Floyd A., A.B.; general manager; B. Worcester Film Corp. State Mutual Bldg., Worcester, Mass., H. 132 Institute Rd., Worcester, Mass.

Rasely, Warren McK., A.B.; 286 Massa-

chusetts Ave., Arlington, Mass.

Readey, Daniel J., A.B.; 2 Avenue de Brimovt, Chatou S. et O., Paris, France.

Rice, Allan G., A.B., A.M. 1913; teacher, United States history and economics; B. Classical H. S., Worcester, Mass., H. 6 Isabella St., Worcester, Mass.

Robinson, Carroll W., A.B.; director, Continuation School; 83 St. James Ave.,

Springfield, Mass.

Schofield, Roger W., A.B., M.D. 1924 Harvard Univ.; physician; B. 36 Pleasant St., Worcester, Mass., H. 80 Apricot St., Worcester, Mass.

Sheldon, Otis C., A.B.; sales representative with Riley Stoker Corp.; B. 103
Park Ave., N. Y. C., H. 49 Lawrence
Ave., W. Orange, N. J.
Sibley, Robert L., A.B., A.M. 1911; vice-

president, in charge of development; B. Rubber Service Laboratories Co., Nitro,

Sowles, Horace K., A.B., M.D. 1915 Harvard Univ.; physician; B. 279 Clarendon St., Boston, Mass., H. 48 Allerton St., Brookline, Mass.

Stimson, Harold F., A.B., A.M. 1911, Ph.D. 1915; physicist; B. Bureau of Standards, Washington, D. C., H. 2920 Brandywine St., Washington, D. C.

Stoddard, Hubert E., A.B.; business; Sey-

mour, Conn. Streeter, Robert J., A.B., A.M. 1912; teacher, history and civics; B. Roosevelt Jr. H. S., Cleveland Heights, Ohio, H. 2965 Hampshire Rd., Cleveland Heights, Ohio.

Taft, Arthur C., A.B.; office manager; Ox-

ford, Mass.

Thomas, Horatio W., A.B., LL.B. 1912 Union; lawyer; Keeseville, N. Y. Wesson, Philip D., A.B., LL.B. 1914 Har-

vard Univ.; lawyer, legal dept.; B. Western Electric Co., 195 Broadway, N. Y. C., H. 73 Munro Ave., Mamaroneck, N. Y.

Wheeler, Lucius B., A.B.; treasurer; B. Shipmark Co., 201 Devonshire St., Bos-

ton, Mass.

White, Ralph H., A.B., A.M. 1911; head dept. chemistry and physics; B. Sr. H. S., Camden, N. J., H. 236 Knight Ave., Collingswood, N. J. Woodbury, Robert M., A.B., A.M. 1912,

Ph.D. 1915 Cornell; editor-economist, Social Science Abstracts; B. 609 Fayer-weather Hall, Columbia Univ., N. Y. C., H. 100 Morningside Dr., N. Y. C. A.M.

Barrows, George M., A.M.† Bivin, George D., A.M.†

Boland, Marian G., A.M., A.B. 1902 Univ. of Me.; dean of women, prof. of modern languages; B. Washington Coll., Chestertown, Md.

Brockman, Mrs. Frank M. (Willis, Jessie), A.M.; missionary; Seoul, Krea (outside

West Gate).

Butler, Harry J., A.M., A.B. 1909 Holy Cross Coll.; teacher, high school; 22 Harrison Ave., Fitchburg, Mass

Carrigan, Thomas C., A.M., Ph.D.

Died 1921.

Cashen. George B., A.M., A.B. 1909 Holy Cross Coll.; North H. S., Worcester, Mass.

Clare, Edward W., A.M.†

Cochran, M. Ethel, A.M., A.B. 1909 Mt. Holyoke Coll.; teacher; B. South H. S., Worcester, Mass., H. 49 Gates St., Worcester, Mass.

Downing, Bertha C., A.M., M.D. 1896 Woman's Medical Coll. of Penn.; orthogenics; B. Williamsburg, Va., H. Kennebunk, Me.

Farlin, Amy C. (See Poland, Mrs. Orville).

Foley, Walter S., A.M.†

Goddard, Robert H., A.M., Ph.D. 1911, Sc.B. 1908 W. P. I.; B. Clark Univ., Worcester, Mass., H. 1 Tallawanda Dr., Worcester, Mass.

Gulick, Louise (See Whitaker, Mrs. R. B.). Hart, Robert S., A.M., A.B. 1907 and Sc.B. 1909 Univ. of Ky.; Pisgah, Ky.

Holmes, Percy K., A.M. Died 1924. Hughes, John L., A.M.† Kallom, Arthur W., A.M.† Karlson, Karl J., A.M.†

Poland, Mrs. Orville (Farlin, Amy C.), A.M., A.B. 1909 Boston Univ.; H. Vista

Lane, Bayside, L. I., N. Y. Roche, John F., A.M., A.B. 1908 Holy Cross Coll.; head mathematics dept.; B. Charlestown H. S., Charlestown, Mass., H. 52 Whiting St., W. Roxbury, Mass.

Smith, Pauline A., A.M., A.B. 1906 Middlebury Coll., H. 11 Coventry Rd., Worcester, Mass.

Udo, Kazuwo, A.M.; 342 E. 58th St., N.

Y. C. Ueda, Tadaichi, A.M., Ph.D. 1912, grad.

Doshisha Theol. Semin. (Japan); The Bank of Chosen, Tokyo, Japan. Whitaker, Mrs. R. B. (Gulick, Louise), A.M., A.B. 1909 Oberlin; missionary; B. Board Mission, Tungshien, American Peiping, China.

Willis, Jessie (See Brockman, Mrs. Frank M.).

# Ph.D.

Acher, Rudolph, Ph.D., A.B. 1908 Indiana Univ.; B. State Normal Sch., Terre Haute, Ind.

Chase, Harry W., Ph.D., A.B. 1904 and A.M. 1908 Dartmouth Coll.; president, Univ. of N. C., Chapel Hill, N. C.

Curtis, Elnora A., Ph.D.†

Dickinson, Hobert C., Ph.D., A.B. 1900 and A. M. 1901 Williams Coll.; physicist, Bureau of Standards; 462 30th St., N.

W., Washington, D. C.
Forbes, William T. M., Ph.D., A.B. 1906
Amherst Coll.; entomologist; B. Roberts
Hall, Cornell, Ithaca, N. Y., H. 213 Bryant Ave., Ithaca, N. Y., Permanent H.,
23 Trowbridge Rd., Worcester, Mass.
Fulcher, Gordon S., Ph.D., Sc.B. 1905

Northwestern; research physicist; Corning Glass Works, Corning, N. Y.

Holmes, William H., Ph.D., A.B.

Colby Coll.; supt. schools; 2 Park Lane, Mt. Vernon, N. Y.

Hutchinson, George A., Ph.D., A.B. 1906 and A.M. 1908 Ind. Univ.; prof., Univ.

of Ga., Athens, Ga.

Morley, Raymond K., Ph.D., A.B. and A.M. 1904 Tufts; prof. mathematics; B. Worcester Polytechnic Institute, Worcester, Mass., H. 43 Laconia Rd., Worcester, Mass.

Porter, Thomas L., Ph.D.†

Sackett, Leroy W., Ph.D., A.B. 1906 Central Normal Coll., A.B. 1908 and A.M. 1909 Ind. Univ.; 1629 Bonnie Brae St., Houston, Tex.

Steves, George H., Ph.D.†
Stoutmeyer, John H., Ph.D., A.B. 1906
Kalamazoo Coll., A.B. 1906 Univ. of
Chicago; prof. and head of dept. education; B. Franklin Coll., Franklin, Md.

Weaver, Edward E., Ph.D., A.B. 1885 Wooster Univ., A.M. 1888 Princeton Univ.; retired; H. 69 Pequossette St., Watertown, Mass.

# CLASS OF 1911

### A.B.

Anderson, Ernest L., A.B.; lawyer; Westminster St., Worcester, Mass.

Arnold, David J., A.B.; sales representative, The Miller Rubber Co.; 519 N.

Broadway, Yonkers, N. Y.

Arnold, Ray D., A.B., A.M. 1927 Trinity Coll. teacher of languages; B. Hartford Pub. H. S., Hartford, Conn., H. 1586 Boulevard, W. Hartford, Conn.

Basnett, Douglas, A.B., M.F. 1923 Yale Univ.; forester; B. 231 So. La Salle St.,

Chicago, Ill.

Basset, Gardner C., A.B. Ph.D. 1913 Johns Hopkins Univ., A.M. (Honorary) 1922 Dartmouth Coll.; prof. psychology; B. Univ. of Ky., Lexington, Ky., H. 200 Waller Ave., Lexington, Ky.

Bennett, Glen R., A.B.; teacher; 51 W. Ashmead Pl., N. Germantown, Philadel-

phia, Pa.

- Boyle, Charles F., A.B., LL.B. 1914 Boston Univ.; lawyer; B. 311 Main St., Worcester, Mass., H. 128 Institute Rd., Worcester. Mass.
- Brown, Herman E., A.B., LL.B. 1917 Univ. of Washington; attorney, Washington Title Insurance Co.; 1933 E. Blaine St., Seattle, Wash.

- Butler, John F., A.B.; Dept. of Commerce, Washington, D. C.
  Carter, Allan L., A.B., A.M. 1913 Northwestern Univ., Ph.D. 1919 Penn. Univ.; head English dept.; B. Technological College, Lubbock, Tex., H. 2010 16th St., Lubbock, Tex.
- Chaplin, Fred W., A.B., A.M. 1913. Died

Chilson, Wallace S., A.B. Died 1916.

Clancey, Frank H., A.B.; actor; 18 Winslow St., Worcester, Mass.

Cole, George E. T., A.B.; manager; B.

Harvard Cooperative Society, Cambridge, Mass., H. 195 School St., Belmont, Mass.

Cook, William R., A.B., A.M. 1924 N. Y. Univ.; principal; B. Watertown H. S. Watertown, Conn., H. Sunset Ave., Watertown, Conn.

Cummings, Stanley W., A.B.; purchasing agent and supt. of shipping dept.; B. Mayhew Steel Products Inc., manufacturers of hammer forged mechanics hand tools, Shelburne Falls, Mass., H. 22 Main St., Shelburne Falls, Mass.

Feingold, Joseph, A. B. Died about 190%. Gammons, Herbert, A.B.; teacher; Deerfield Academy, Deerfield, Mass.

Hirsch, Samuel W., A.B., A.M. 1912; teaching; 613 Parrish St., Philadelphia, Pa.

Jackson, Harry L., A.B., A.M. 1912; director, Employees Savings and Investment Fund Dept., General Motors Corp.; B. General Motors Bldg., Detroit, Mich., H. 3011 Fullerton Ave., Detroit, Mich.

Kaufman, Reuben, A.B., A.M. 1912 Columbia Univ., L.H.D. 1917 Jewish Theol. Semin.; Rabbi; B. Temple Emanuel, Paterson, N. J., H. 468 East 41st St., Paterson, N. J.

Kirkpatrick, Robert, A.B., Sc.M. 1913 Mc-Gill Univ.; sales manager, Refractories Division; B. Norton Co., Worcester, Mass., H. 3 Woodman Rd., Worcester, Mass.

Laine, Edmund R., Jr., A.B., grad. 1914, Gen. Theol. Semin.; Rector, St. Paul's Episcopal Church, Stockbridge, Mass.

- Loomis, Robert H., A.B., A.M. 1918 Harvard Univ.; Shaw, Loomis and Sayles, Investment Counsel, offices in Boston, New York City, Philadelphia and San Francisco; B. 24 Federal St., Boston, Mass., H. 190 Forest Ave., West Newton, Mass.
- Melvin, Roy S., A.B.; fire prevention engineer; B. Eastern Underwriters Inspection Bureau, 40 Broad St., Boston, Mass., H. 25 Middlefield Dr., West Hartford,

Norris, Albert F., A.B.; foundry business; B. 110 Gibson St., Dorchester, Mass., H. 98 Gibson St., Dorchester, Mass.

- Oakes, John W., Jr., A.B.; teacher; B. High School of Commerce, Worcester, Mass., H. 297 Pleasant St., Worcester, Mass.
- Peters, Frank W., A.B.; asst. to sales dist. manager; B. Hospital Trust Bldg., Provi-dence, R. I., H. 230 Pleasant St., Provi-dence, R. I.

Preston, Harold A., A.B.; salesman, statistician; B. Goodwin-Beach & Co., 720 Main St., Hartford, Conn., H. 984 Main St., East Hartford, Conn.

Racine, Arthur R., A.B.; head of modern language dept.; B. Mechanics Arts H. S., Boston, Mass., H. 155 Elm St., W. Somerville, Mass.

St. John, Charles W., A.B., A.M. 1912, Ed. M. 1926 and Ed. D. 1928 Harvard Univ.; dept. psychology; B. N. J. Law School, 40 Rector St., Newark, N. J., H. 21 Edgewood Pl., Maplewood, N. J. Schwab, William K., A.B., A.M. 1912;

teacher, American history and problems of American democracy; B. Sr. H. S., Atlantic City, N. J., H. 36 Van Mar Ave., Pleasantville, N. J.

Thompson, Hubert C., A.B.; asst. U. S.

attorney; 19 Belmont Ave., Haverhill,

Totah, Khabil A., A.B.; principal, Friends' Sch.; Ram Allah, Palestine. Tourville, Bertram, A.B.; principal, high

school; Deep River, Conn. Walsh, James H., Jr., A.B., LL.B. 1913 Boston Univ.; lawyer; 22 Fairbanks St.,

Fitchburg, Mass.

White, Ernest H., A.B., Sc.M. 1915 Univ. of Chicago, M.D. 1922 Harvard Univ.; physician; B. 820 Donaghey Bldg., Little Rock, Ark., H. 105 Crystal Ave., Little Rock, Ark.

#### A.M.

Clarke, Edwin L., A.M.†

Damon, Alice H., A.M., A.B. 1890 Univ. of Mich.; teacher of deaf; 389 Main St., W. Concord, Mass.

**Du Bois, B. G.,** A.M., A.B. 1910 Ottawa Univ.; asst. prof. physical education; H. 416 E. Peashway St., S. Bend, Ind.

Elliott, Robert T., A.M., A.B. 1897 Amherst Coll.; principal; B. North H. S., Wor-cester, Mass., H. 33 Berwick St., Worcester. Mass

Emerson, Paul S., A.M., Sc.B. 1910 Nor-wich Univ.; 44 Putney Rd., Brattle-boro, Vt.

Finkenbinder, Erwin O., A.M., Ph.D. 1913, A.B. 1910 Univ. of Ill.; prof. Ia. State Teachers Coll.; 815 W. 26th St., Cedar Falls, Ia.

Fleming, Pierce J., A.M., A.B. 1910 Holy Cross Coll.; 1441 Park Pl., Detroit, Mich.‡

Fuller, Harold F., A.M.†

Hammond, Ernest, A.M., B. Ped. 1910 Ohio
Univ.; 220 W. Main St., Portland, Ind.‡
Hayes, Alice B. (See Lefschetz, Mrs. Solo-

mon).

Hinkley, Irving A., A.M.† Howard, Frank E., A.M., Ph.D. 1912, Pd.B. 1907 and A.B. 1910 Mich. State Normal;

Middlebury Coll., Middlebury, Vt. Lefschetz, Mrs. Solomon (Hayes, Alice B.), A.M., Sc.B. 1908 Pacific Coll., A.B. 1910 Univ. of Oreg.; Princeton Univ., Princeton, N. J.

Mackay, George W., A.M.†

Mayer-Oakes, Frederick T., A.M., A.B. 1905

Dexter Christian Coll., A.M. 1908 Leander Clark Coll., Ph.D. 1910 Kansas City Univ., D.D. 1916 Chicago Semin., LL.D. 1923 Ia. Christian Coll.; pastor; B. Plymouth Congregational Church, Whiting, Ind.

Miller, Mrs. Newton (Roethlein, Barbara

B.), A.M.; Porterville, Calif

Monroe, Arthur, A.M., A.B. 1897 Amherst Coll.; Judge (special justice Dist. Court of Western Worcester); B. 340 Main St., Worcester, Mass., H. Spencer, Mass.

Morrow, Curtis H., A.M.† Moyle, Henry B., A.M., A.B. 1906 McMaster Univ., M.B. 1910 Univ. of Toronto; 488 Main St., Hartford, Conn.

Perry, W. B., A.M., B.D. 1898 Bishop Payne Divinity Sch., A.B. 1908 Latta Univ.; 103 Locust Ave., Worcester, Mass.

Powers, Wallace F., A.M.

Roethlein, Barbara E., (See Miller, Mrs. Newton).

Rosanoff, Louise P., A.M. Deceased. Sampson, George G., A.M., A.B. 1905 Bates Coll.; instr.; B. High School of Com-

merce, Worcester, Mass., H. 12 Lowell St., Worcester, Mass.

Shafer, George H., A.M., A.B. 1906 Univ.

of Chattanooga; principal; State Normal Training Sch., Willimantic, Conn. Sibley, Robert L., A.M.; Smith, Claude L., A.M., A.B. 1909 Antioch Coll., LL.B. 1913 Cumberland Univ; law-

yer; Charleston, W. Va. Sparkman, Colley F., A.M., Ph.D. 1914 N. Y. Univ.; asso. prof. Spanish; Univ. of Wyo., Laramie, Wyo. Steele, Adele G., A.M., Ph.D. 1913, A.B.

1907 Potter Coll.; 614 W. Mississippi Ave., Ruston, La.

Steele, Asa G., A.M., Ph.D. 1913, Sc.B. 1901 Univ. of Mo., LL.D. 1908 Bowdoin Coll.; dean, Sch. of Education; B. La. Polytechnic Institute, Ruston, La.

Stimson, Harold F., A.M.†

Sullivan, Thomas F., A.M., A.B. 1910 Holy Cross Coll.; teacher; B. High School of Commerce, Worcester, Mass., Chandler St., Worcester, Mass.

White, Ralph H., A.M.†

Wood, Moses E., A.M. Died 1925. Wood, Mrs. Moses E., A.M., Sc.B. 1892 Na-

tional Univ.; housekeeper; Alva, Okla. Yamada, Sohichi, A.M., Ph.D. 1913, A.B. 1910 De Pauw Univ.; 17 Oyama, Shibuya, Tokyo-fuka, Japan.

Bacon, Charles W., Ph.D.† Becknell, Guy G., Ph.D., Sc.B. 1905 Northwestern Univ.; 690 Dixon Ave., Tampa, Fla.

Carrigan, Thomas C., Ph.D.† Chidester, Floyd E., Ph.D.;

Conklin, Edmund S., Ph.D.† Cooley, Herbert C., Ph.D., B. Ped. 1906 and A.B. 1907 Mich. State Normal Coll.; Pastor; B. Pewabic Methodist Episcopal

Church, Hancock, Mich. Goddard, Robert H. Ph.D.†

Hartson, Louis D., Ph.D., Ph.B. 1908 Grinnell Coll., Pd. M. 1909 N. Y. Univ.; prof. psychology, Oberlin Coll.; H. 161 Forest St., Oberlin, Ohio.

Harvey, McLeod, Ph.D., A.B. 1889 Dalhousie Coll.; prof. philosophy, psychology, and biblical literature; B. Waynes-

burg Coll., Waynesburg, Pa.

Lefschetz, Solomon, Ph.D., grad. 1905

L'Ecole Centrale des Arts et Manufactures; Princeton Univ., Princeton, N. J.

Matheny, William A., Ph.D.†

Montgomery, William J., Ph.D.† Nice, Leonard B., Ph.D., Ph.B. 1908 Ohio Univ.; prof. physiology; B. Ohio State Univ., Columbus, Ohio, H. 156 W. Patterson Ave., Columbus, Ohio.

Spidle, Simeon, Ph.D., A.B. 1897 Acadia Univ., LL.D. 1919 Dalhousie Univ., D.D. 1926 Acadia Univ.; prof. philosophy; B. Acadia Univ., Wolfville, N. S. Weld, Harry P., Ph.D., Ph.B. 1900 Ohio

State Univ.; Morrill Hall, Cornell Univ., Ithaca, N. Y.

Wright, Clarence D., Ph.D.;

CLASS OF 1912

A.B.

Alexander, Forrest E., A.B.; asst. treasurer, Warren Belting Co.; H. 754 Pleas-

ant St., Worcester, Mass.

Atwood, Harold B., A.B.; president and treasurer, School St. Garage, Inc.; B. 24 School St., Danielson, Conn., H. 39 Broad

St., Danielson, Conn. Battles, Earle W. A.B. Deceased. Belisle, Eugene S., A.B. Died 1928.

Bemis, Samuel F., A.B., A.M. 1913, Ph.D. 1916 Harvard Univ.; prof. history; B. George Washington Univ., Washington, D. C., H. 3312 Cathedral Ave., Washington, D. C

Brigham, Lawrence W., A.B., A.M. 1913; teacher; B. North H. S., Worcester, Mass., H. 97 Morningside Rd., Worcester,

Mass.

Burt, Arthur W., A.B.; teller; B. Windsor Locks Trust & Safe Deposit Co., Windsor Locks, Conn., H. 79 Enfield St.,

Thompsonville, Conn. utler, Walter G., A.B., A.M. 1914; presi-Butler, dent, Perkins and Butler, Inc., B. 16 Federal St., Worcester, Mass., H. 67 Olean St., Worcester, Mass. Carmichael, Robert R., A.B., B.D. 1915 E. T. S.; clergyman, Grace Church; 19 Luzon Ave., Providence, R. I.

Cody, Paul L., A.B.; B. L. B. Ramsdell Co., 170 Mill St., Gardner, Mass., H. 36

Lawrence St., Gardner, Mass.

Cummings, Charles H., A.B., A.M. 1913; director, Olivet Community House; B. Oak St., Springfield, Mass., H. 197 Marion St., Springfield, Mass.

Dawson, Leo H., A.B., A.M. 1914, Ph.D. 1925 N. Y. Univ.; asst. physicist; B. Naval Research Laboratories, Bellevue, D. C., H. 3610 Homer Pl., S. E., Wash-

ington, D. C.

Dibble, Roy F., A.B., Ph.D. 1921 Columbia Univ.; asst. prof. English, Hunter Coll.; Faculty Club, Columbia Univ., N. Y. C.

Dickie, Allan, A.B., A.M. 1914; teacher; B. High School of Commerce, Worcester, Mass., H. 24 Oread St., Worcester, Mass. Dunphy, Raymond A., A.B., A.M. 1913;

chemist, E. I. du Pont Co.; 44 Zeigler Tract, Penns Grove, N. J.

Dwyer, John F., A.B.; prod. manager, Brewer Tetchener Corp.; 85 Tompkins St., Cortland, N. Y.

Frame, Floy H., A.B., E.E. 1924 W. P. I.; teacher; H. 703 12th St., Rollo, Mo.

Gaylord, Harding W., A.B., B.D. 1922 and A.M. 1924 Yale Univ.; minister; B. Westfield Congregational Church, Danielson, Conn., H. 22 Hawkins St., Danielson, Conn.

Godfrey, Henry R., A.B.; treasurer, G. R. Godfrey Co.; H. 189 Woodland Ave., Gardner, Mass.

Hankins, Ralph H., A.B.; dentist; 639

Grosvenor Bldg., Providence, R. I. Herdman, Gordon W., A.B.; statistician; 131 Fair Oaks Park, Needham, Mass.

Higgins, John R., A.B., LL.B. 1915 Harvard Univ.; attorney; B. 201 Stadium Bldg., Woonsocket, R. I., H. 110 Meadow Rd., Woonsocket, R. I.

Jacobson, Henry, A.B., A.M. 1913; minister; B. Federated Community Church,

Hampden, Mass.

Johnson, Carl, A.B.; 59 Chester St., Worcester, Mass.

Johnson, Ward L., A.B.; headmaster; The Lawrence Sch., Hewlett, L. I., N. Y. Kimball, Ralph G., A.B.; chemist; B. Win-

chester Repeating Arms, New Haven, Conn., H. 106 Concord St., Hamden, Conn.

Kirby, John R., A.B.; president-treasurer, Portland Roofing Co., B. 22 Union Wharf Portland, Me., H. 276 Pine St., S. Portland, Me.

Klain, Zora, A.B., Ph.D. 1924 Univ. of Penn.; prof. education and head of dept.; B. N. J. Coll. for Women, New Brunswick, N. J., H. Stelton, N. J.

Little, Malcolm G., A.B., A.M. 1924 Columbia Univ.; 219 Vance St., Chapel

Hill. N. C.

Maynard, Leland C., A.B., grad. 1928 Burdett Coll. School of B.A.; advertising manager; B. Woodbury & Co., Chad-wick Sq., Worcester, Mass., H. South Berlin, Mass.

Miner, Douglas F., A.B., Sc.B. 1915 and E.E. 1917 W. P. I.; engineer, manager material and process; B. Westinghouse Electric & Mfg. Co., Pittsburg, Pa., H.

360 Ave. F., Wilkinsburg, Pa.

Morton, Harold A., A.B., A.M. 1913, Ph.D. 1915 Univ. of Pittsburgh; chemist and director of research; B. Miller Rubber Co., Akron, Ohio, H. 475 Dorchester Rd., Akron, Ohio.

McCurdy, John R., A.B., A.M. 1925 Col.; executive secretary Y. M. C. A.; 10 Char-

lotte St., White Plains, N. Y.

Oberg, Frank T., A.B., M.D. 1916 Harvard Univ.; physician; 50 Framingham Ave., Hartford, Conn.

Oehme, Paul A., A.B.; real estate; 22 Mil-

ton St., Worcester, Mass.

Peckham, John L., A.B.; rector of Christ Church and lecturer DeLancey Divinity Sch., Buffalo, N. Y.; 123 Spaulding St., Lockport, N. Y.

Peltier, Louis J., A.B., A.M. 1922 Columbia Univ.; principal, high school; Shrews-

bury, Mass.

- Pierce, Harold F., A.B.; student; dept. of pathology, Oxford Univ., Oxford, England.
- Pilsworth, Malcolm N., A.B., LL.B. 1917 Harvard Univ.; asst. counselor; B. Norton Co., Worcester, Mass., H. 74 Davidson Rd., Worcester, Mass.

Powers, Frank R., A.B.; state manager, Beacon Oil Co.; 69 Temple Ave., Win-

throp, Mass.

Radley, Edward T., A.B.; principal and teacher, arithmetic, algebra, English and penmanship; B. Badgett Jr. H. S. (one of Pulaski County Unit System of Schools), Little Rock, Ark., H. 516 Cumberland St., Little Rock, Ark.

Rasely, Hiram N., A.B.; vice-president, Burdett Business Coll.; B. 156 Stuart St., Boston, Mass., H. 15 Churchill Ave.,

Arlington, Mass.

Risley, C. Harold, A.B.; representing Scott, Foresman & Co., school textbooks; H. 327 St. James Ave., Springfield, Mass.

Sanborn, Kent L., A.B.; principal; B. Jr.-Sr. H. S., Longmont, Colo., H. 1259 Longs Peak Ave., Longmont, Colo.

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Sarasohn, Israel J., A.B., A.M. 1914 Univ. of Cincinnati, Rabbi, 1916 Hebrew Union Coll.; B. Temple B'nai Jeshurun, Levenworth, Kans.

- Sheehan, Jeremiah, A.B.; Latin teacher and head of the Intermediate Sch. at The Rivers Sch.; B. 290 Dean Rd., Brookline, Mass., H. 230 Mason Ter., Brookline, Mass.
- Smith, John A., A.B., M.B.A. 1914 Harvard Univ.; 35 Bartlett Ave., Arlington, Mass.
- Smith, Milton M., A.B., A.M. 1917 Columbia Univ.; instr. English; B. Columbia Univ., N. Y. C., H. 509 W. 121st St., N. Y. C.
- Stoddard, Russell B., A.B.; asst. general manager; 6 Wildwood. Ter., Glen Ridge, N. J.
- Sturtevant, Arnold P., A.B., Ph.D. 1923 George Washington Univ.; in charge of The Intermountain Bee Culture Field Station, U. S. Dept. of Agriculture; B. c/o Univ. of Wyo., Laramie, Wyo., H. 201 So. 13th St., Laramie, Wyo.
- Tetrault, Philippe A., A.B., Sc.M. 1914 Purdue Univ., Ph.D. 1929 Univ. of Wis.; asso. prof. bacteriology; B. Purdue Univ., Lafayette, Ind., H. 306 Russell St., W. Lafayette, Ind.
- Thayer, Ralph H., A.B.; teacher; B. Mackenzie Sch., Monroe, N. Y.
- Towne, Ralph V., A.B.; insurance, supervisor tabulating machine work; B. Aetna Fire Insurance Co., 103 Woodland St., Hartford, Conn., H. 154 Raymond Rd., West Hartford, Conn.
- Tyree, Louis C., A.B., LL.B. 1919 and LL.M. 1921 Boston Univ.; lawyer; 5040 St. Lawrence Ave., Apt. 2, Chicago, Ill.
- Walker, Frank A., A.B. Died 1925
- Webb, J. Shaw, A.B., D.C. 1917 Palmer Sch.; chiropractor; Vt. State Hospital, Waterbury, Vt.
- Wheeler, Raymond H., A.B., A.M. 1913, Ph.D. 1915; psychology dept.; Univ. of Kans., Lawrence, Kans.
- Whiting, Robert A., A.B.; warehouse supt.; Market Basket Corp., wholesale grocers; 680 Castle Heights, Geneva, N. Y
- Whitman, Warren C., A.B. Sc.B. 1915 M. I. T.; dept. manager, H. A. Johnson Co.; B. 221 State St., Boston, Mass., H. 6 Perkins Rd., Winchester, Mass.
- Winslow, Arthur C., A.B.; 32 Willow Ave., Wollaston, Mass.

A.M.

Campbell, Ivy G., A.M., Ph.D. 1914, A.B. 1911 Univ. of Colo.; Wells Coll., Aurora,

Dolbear, Katherine E., A.M.; 123 Coligin Ave., New Rochelle, N. Y.

Drake, Dorothy, A.M., A.B. 1898 Smith Coll., 37 Fairfield St., Boston, Mass. Goodrich, Merton T., A.M., Sc.B. 1909 Univ.

of Me.; principal; B. Monson Academy, Monson, Me.

Grose, Merritt R., A.M. Deceased. Hirsch, Samuel W., A.M.†

Jackson, Harry L., A.M.†

Mackie, Ranson A., A.M., Ps.D. 1911 Portland Sch. of Higher Psychology; asst. prof. history and education; B. State Normal Coll., Dilton, Mont.

Potter, Herman M., A.M., A.B. 1906 Univ. of Wis.; Ford chemist, Sprague Warner & Co.; B. 600 W. Erie St., Chicago, Ill., H. 7224 N. Clark St., Apt. 1, Chicago, Ill. St. John Charles W. A.M.†

H. 7224 N. Clark St., Apt.,
St. John, Charles W., A.M.†
Schulze, John F. W., A.M. Ph.D. 1914,
Sc.B. 1911 and Ch.E. 1913 N. Y. Univ.;
chemical engineer; B. The Grasselli Chemical Co., Guardian Bldg., Cleveland, Ohio, H. 3340 Ardmore Rd., Shaker Heights. Ohio.

Schwab, William K., A.M.†

Squier, Rosie G., A.M., A.B. 1899 Welles-ley Coll.; taking care of aged parents; H. 23 Hampden Rd., Monson, Mass.

Stoy, Annie E., A.M., Sc.B. 1907 National Univ.; teacher, high school; 3 Howe St., Seattle, Wash.

Streeter, Robert J., A.M.†
Woodbury, Robert M., A.M.†
Yanovsky Elias, A.M., Ph.D. 1913, grad.
1911 Univ. of St. Petersburg (Russia); chemist; B. Bureau of Chemistry and Soils, U. S. Dept. of Agriculture, Washington, D. C., H. 1445 Park Rd., N. W., Washington, D. C.

Ph.D.

Bchannon, Eugene W., Ph.D., A.B. 1890 and A.M. 1891 Ind. Univ.; president; B. State Teachers Coll., Duluth, Minn., H. 2323 E. Fifth St., Duluth, Minn.

Fletcher, John M., Ph.D., A.B. 1901 Vanderbilt Univ., A.M. 1904 Univ. of Colo.; 1020 Audubon St., New Orleans, La.; Howard, Frank E., Ph.D.; Karlson, Karl J., Ph.D.;

McIndoo, J. M., Ph.D.† Ueda, Tadaichi, Ph.D.†

# CLASS OF 1913

A.B.

Adams, Frank L., A.B.; president, Frank L. Adams Co., contractors; B. Box 63, Greendale Station, Worcester, Mass., H.

159 Quinapoxet Lane, Worcester, Mass.

Anselmi, Adolph, A.B.; property management; B. Union Trust Co., Detroit, Mich., H. 13350 Strathmoor Ave., Detroit, Mich.

Appledorn, Herman H., Jr., A.B., A.M. 1918 Yale Univ.; asst. prof. chemistry, Penn. State Coll.; B. University Club, State College, Pa., H. 97 Glenwood Ave., New

London, Conn.

Averill, Lawrence A., A.B., A.M. 1914, Ph.D. 1915; author and lecturer, head dept. psychology, Worcester State Normal Sch.; B. Worcester State Normal Sch., Worcester, Mass., H. 5 Rupert St., Worcester. Mass.

Beckwith, Walter L., A.B., B.D. 1916 Epis. Theol. Semin.; supt. Good Shepherd Mission to the Navajos; B. Fort De-

fiance, Ariz.

Berger, Henry E., Jr., A.B., C.P.H. 1922 Harvard Univ.; studying medicine at the Karl Franzens Universitäte, Graz, Austria; B. 48 Goethestrasse, Steiermark, Austria, H. 12 Appleby Rd., Wellesley, Mass.

Boireau, Walter H., A.B.; Phoenix Mutual Life Insurance Co., Hartford, Conn.‡

Boyce, Paul L., A.B.; lawyer; 200 Glen St., Glens Falls, N. Y.

Brown, Thomas I., A.B., A.M. 1914 Ph.D. 1920; Morgan Coll., Baltimore, Md., H.

1920; Morgan Coll., Baltimore, Forn Pathe, Jamaica, B. W. I.

Carruthers, Paul E., A.B.; asst. agency supt.; B. Equitable Life Assurance Society, 100 Milk St., Boston, Mass.; H. 140

Warren Rd., Framingham, Mass. Chang, Peng Chun, A.B.; Nankai Coll., Tientsin, China.

Chester, Edward P., A.B.; director, State Trade Sch., Hartford, Conn.; H. 851 Wethersfield Ave., Hartford, Conn.

Cochran, Harold C., A.B.; supt.; B. The Geo. C. Whitney Co., 67 Union St., Wor-cester, Mass., H. W. Brookfield, Mass.

Coyne, Charles E., A.B.; asst. adv. manager; B. Wm. Filene's Sons Co., 426 Washington St., Boston, Mass., H. 11 Newtonville Ave., Newton, Mass. Cummings, Leo G., A.B.; High School, W.

Springfield, Mass.

Day Lorey C., A.B., A.M. 1916; supt. schools; B. Livermore Falls, Me., H. 31 Knapp St., Livermore Falls, Me.

Elwell, William B., A.B.; vice-principal and head English dept.; B. Crosby H. S., Waterbury, Conn., H. 40 Sycamore Lane, Waterbury, Conn.

Gage, Sumner C., A.B.; mortician; H. 15

Cotting Ave., Marlboro, Mass.

Gay, Ray L., A.B.; printer; Box 45, Northboro, Mass.

Gibney, Carroll N., A.B., A.M. 1916; educational director Y. M. C. A.; B. 55 Hanson Pl., Brooklyn, N. Y., H. 9 Pulaski St., Brooklyn, N. Y.

Hill, Davis E., A.B.; teacher; B. Technical H. S., Providence, R. I., H. 46 Wash-

ington Ave., Riverside, R. I.

Horne, William O., A.B.; bond dept.; B. Minnesota Loan & Trust Co., Minneapolis Minn.; H. 522 Cedar Lake Rd., Minneapolis, Minn.

Johnson, Frank L., A.B.; asst. traffic supt.; B. Mich. Bell Telephone Co., Detroit, Mich., H. Hotel Stevenson, 46 Davenport St., Detroit, Mich.

Leach, Lester C., A.B.; div. manager, Den-

nison Manufacturing Co.; 346 Franklin St., Framingham, Mass.

Lund, John, A.B., A.M. 1914 Columbia Univ.; supt. public schools; 21 Newton Ter., Norwalk, Conn. Molt, R. Nelson, A.B., LL.D. 1916 Boston Univ.; lawyer; B. 604 Slater Bldg., Wor-cester, Mass., H. 127 Burncoat St., Wor-Mass.

cester, Mass.
Moran, William T., A.B.; bank manager; B. The National City Bank of New

York, Sao Paulo, Brazil.

Nakanishi, Tetsutaro, A.B.; 368, Takino-

gawa, Tokyo, Japan.

Nathanson, Joseph N., A.B., A.M. 1924 Columbia Univ.; teacher, science, also director of adult education, Norwalk; B. Sr. H. S., Norwalk, Conn., H. 26 Morgan Ave., Norwalk, Conn.

Negus, Sidney S., A.B., A.M. 1917 Harvard Univ., Ph.D. 1923 Johns Hopkins Univ., prof. chemistry; B. Medical Coll. of Va., Richmond, Va., H. 613 Rosemath Rd., Richmond, Va.

Nordenholt, Herman C., A.B.; salesman; H. 56 Theresa Pl., G. P. O., Staten Island, N. Y.

Ogilvie, Clinton B., A.B.; manager for S. Jersey of Equitable Ins. Co. of Ia.; 20

Montrose Ave., Verona, N. J.

Pratt, Aaron P., A.B., C.P.H. 1916 Harvard-M. I. T., M.D. 1922 Harvard Univ.; physician; H. 253 Broad St., Windsor, Conn.

Resnik, Samuel, A.B., LL.B. Harvard Univ.; lawyer; B. 73 Tremont St., Bos-ton, Mass., H. 1 Chapman Ave., Andover, Mass.

Sargent, Elon G., A.B.; Furnald Hall, Columbia, Univ., N. Y. C.

Sawyer, Frank L., A.B.; dept. public speaking; B. Univ. of Mich., Ann Arbor, Mich.

Sherman, William R., A.B., A.M. 1914, Ph.D. 1923; asso. prof. economics; De Pauw Univ., Greencastle, Ind.‡

Staebner, William H., A.B.; chemical librarian; B. 30 Charles River Rd., Cambridge, Mass., H. 34 Wheatland Ave., Dorchester, Mass.

Dorchester, Mass.

Sweeney, James F., A.B. Died 1926.

Thomas, Wilson W., A.B. Deceased.

Thomson, Earl W., A.B., A.M. 1915 Dartmouth Coll.; asso. prof. electrical engineering and physics; B. Dept. E. E. and P., U. S. N. A., Annapolis, Md., H. 151 5th St., Spa View Heights, Annapolis polis, Md.

Townsend, Irving J., A.B.; 7 Columbus Ave., Glen Ridge, N. J. White, Carl M., A.B., A.M. 1915. Deceased.

# A.M.

Bellamy, Raymond, A.M., Ph.D. 1917, A.B. 1910 Moore's Hill Coll.; prof. sociology; State Coll. for Women, Tallahassee, Fla. Bemis, Samuel F., A.M.†

Brigham, Lawrence W., A.M.†

Chaplin, Fred W., A.M.†

Claman, Samuel, A.M., grad. 1904 Fitch-burg State Normal; Plaza Hotel, Baltimore, Md.

Cummings, Charles H., A.M.†

Dunphy, Raymond A., A.M.† Freeland, George E., A.M., Ph.D. 1920, A.B. 1909 Kansas State Normal; State Teachers Coll., San Jose, Calif.

Hamilton, A. Edward, A.M.; Winthrop,

Me.

Harrison, Marion M., A.M., Ph.D. 1914, Sc.B. 1913 Univ. of Ky.; chief chemist; Miller Rubber Co., Akron, Ohio, H.

334 Merriman Rd., Akron, Ohio. Hoar, Mrs. Charles E. (Tufts, Frances), A.M., A.B. 1909 Wellesley Coll., Sc.B. 1919 Simmons Coll., H. Box 605, Wor-

cester, Mass.

Jacobson, Henry, A.M.+ Jones, George Ellis, A.M., Ph.D. 1915, A.B. 1909 Kans. State Teachers Coll.; prof. educational psychology; B. Univ. of Pittsburgh, Pittsburgh, Pa., H. 73 Harwood St., Pittsburgh, Pa.

Mandelstam, Abraham, A.M., A.B. 1903 Coll. of The City of New York; 230 W.

107th St., N. Y. C.‡

Morton, Harold A., A.M.† O'Brien, Frank J., A.M., Ph.D. 1916, M.D. 1927 Univ. of Louisville; medical director Louisville Psychiatric Clinic; H. 215 E. Walnut St., Louisville, Ky. O'Flynn, George B., A.M., Sc.B. 1912 Mass.

Agri. Coll.; teacher biology; B. Classical H. S., Worcester, Mass., H. 7 Fiske St.,

Worcester, Mass.

Percy, C. Lisle, A.M., B.D. 1911 Atlanta Theol. Semin.; prof. history; B. Piedmont Coll., Demorest, Ga. Rice, Allan G., A.M.†

Sullivan, F. John, A.M., A.B. 1909 Holy Cross Coll.; teacher; B. North H. S., Worcester, Mass., H. 45 Somerset St., Worcester, Mass.

Tobin, Francis A., A.M., A.B., Holy Cross Coll.; 69 Gage St., Worcester, Mass.

Tufts, Frances (See Hoar, Mrs. Charles E.). Waite, Mary A., A.M.; teacher; B. Classical H. S., Worcester, Mass., H. 105 Elm St., Worcester, Mass.

Wheeler, Raymond H., A.M.†

Ph.D.

Beik, Arthur K., Ph.D., Ph.B. 1908 Grinnell Coll., Ped. 1909 N. Y. Univ.; prof. education; B. N. Y. State Coll. for Teachers, Albany, N. Y., H. 2 Glenwood St., Albany, N. Y.

Albany, N. Y.

Bivin, George D., Ph.D.†

Field, Irving A., Ph.D. Died 1921.

Finkenbinder, Erwin O., Ph.D.†

Fisher, Sara C., Ph.D. A.B. 1909 Lombard,
A.M. 1910 Univ. of Ill.; asst. prof. psychology and Clinical Juvenile Court; 329

S. Ave., Los Angeles, Calif.

Gilbertson, Albert N., Ph.D., A.B. 1908
and A.M. 1909 Univ. of Minn., S.T.M.
1920 Harvard Univ.; Protestant Episcopal clergyman; B. Rector, All Saints'
Church, Pontiac, R. I., H. North Grafton, Mass. ton, Mass.

Jones, Arthur Taber, Ph.D., Sc.B. 1899 Univ. of Chicago; prof. physics; B. Smith Coll., Northampton, Mass., H. 78 North Elm St., Northampton, Mass.

Richardson, Roy F., Ph.D., A.B. 1909 Kans. State Teachers Coll.; prof. education; B. Carroll Coll., Waukesha, Wis., H. 422 Central Ave., Waukesha, Wis.

Robinson, Kirkman K., Ph.D., A.B. 1907 and A.M. 1908 Univ. of Oreg.; 1257 Agate St., Eugene, Oreg.

Sechrist, Frank K., Ph.D. Died 1921.

Steele, Adele G., Ph.D.† Steele, Asa G., Ph.D.†

Van Waters, Miriam, Ph.D., A.B. 1908 and A.M. 1910 Univ. of Oreg.; 505 Hall of

Justice, Los Angeles, Calif.

Woods, Elizabeth L., Ph.D., A.B. 1909 and A.M. Univ. of Oreg.; director, dept. psychology and educational research; 346 Chamber of Commerce, Los Angeles, Calif

Yamada, Sohichi, Ph.D.† Yanovsky, Elias, Ph.D.†

CLASS OF 1914

Besselievre, William C., A.B., B.D. 1918

Hartford Semin.; minister, First Congregational Church; B. De Smet, S. Dak,

Brooks, Roger E., A.B.; farmer; 567 Grove St., Worcester, Mass.

Cannon, Robert H., A.B.; salesman, Norton Co.; B. 1306 E. 55th St., Cleveland, Ohio, H. 2130 Carabel Ave., Lakewood, Ohio.

Christopher, Clifford Z., A.B.; 6 Chester St., North Cambridge, Mass.‡

Daniels, Earl R. K., A.B., A.M. 1922 Univ. of Chicago, A.M. 1925 and Ph.D. 1926 Harvard Univ.; head English dept.; B. State Teachers Coll., Buffalo, N. Y., H. 204 Highland Ave., Buffalo, N. Y

Darby, Edward H., A.B., A.M. 1915, Ph.D. 1917. Died 1927.

Edson, Earle R. A.B.; Russia Cement Co., Gloucester, Mass.

Edson, Robert A., A.B.; Western Electric Co.; 504 W. 112th St., N. Y. C.

Eells, Ernest E., A.B., A.M. 1917 Princeton Univ.; B.D. 1921 Auburn Semin.; Presbyterian clergyman; H. 117 S. Buffalo St., Orchard Park, N. Y.
Ellis, Ralph W., A.B., M.D. 1918 Harvard Univ.; physician; B. 574 Main St., Worcester, Mass., H. 22 Howland Terrace, Worsester, Mass.

Worcester, Mass.

Fenton, Frederick A., A.B., Sc.M. 1915 and Ph.D. 1918 Ohio State Univ.; entomologist, U. S. Dept. of Agriculture; Box 67, Sta. A, El Paso, Tex.

Ferguson, Harold A., A.B., A.M. 1916; principal, Montclair H. S.; 14 Princeton Pl.,

Upper Montclair, N. J.

Godfrey, Roland J., A.B.; head dept. history, Arnold Sch., Pittsburgh, Pa.; 513 Jeannette St., Wilkinsburgh, Pa.

Gordon, Hardy H., A.B. Deceased.

Green, Howard W., A.B., Sc.B. 1916 M. I. T., Sc.B. 1916 Harvard Univ.; secretary, Cleveland Health Council; B. Federal Reserve Bank Bldg., 715 Superior Ave., Cleveland, Ohio, H. 3339 Beechwood Ave., Cleveland Heights, Ohio.

Hayden, Oliver M., A.B.; supervisor, Rubber Division, Technical Laboratory, E. I. du Pont de Nemours & Co., Inc.; B P. O. Box 518, Wilmington, Del., H. 617

W. 27th St., Wilmington, Del.

Henry Thomas R., A.B.; 3816 Albemarle St., N. W., Washington, D. C.

Johnson, Charles W., A.B.; attorney; H. 2 Downing St., Worcester, Mass.

Karlson, Hugo P., A.B.; shipping clerk; B. Gridley Stone Printing Co., Orange, Mass., H. 114 Pleasant St., Orange, Mass.

Kiley, M. Marcus, A.B.; teacher chemistry; 78 Mansfield St., Springfield, Mass.

Lundgren, Albert G., A.B.; traffic officer; H. 65 Rosewood St., Mattapan, Mass.

MacLaren, William G., A.B.; credit manager, Swift & Co.; 7649 S. May St.,

Chicago, Ill. Murdock, Arthur W., A.B.; salesman, B. F. Goodrich Rubber Co.; 57 Dodge Ave.,

Akron, Ohio. O'Brien, John C., A.B., A.M. 1915; legislative correspondent; B. New York Herald

Tribune, N. Y. C.

O'Day, John P., A.B.; Roman Catholic priest; H. Box G., North Brookfield, Mass., H. 7 Proctor St., Worcester, Mass. O'Keefe, Justin E., A.B. Died 1915.

Oxholm, Gustav K., A.B.; physician; Say-

ville, L. I., N. Y.

Parker, Charles C., A.B.; insurance; B. 390 Main St., Worcester, Mass., H. 9 Kenwood Ave., Worcester, Mass.

Phelps, Everett R., A.B., Ph.D. 1923 Univ. of Mich.; teacher; B. College of the City of Detroit, Detroit, Mich., H. 16835 Sunderland Rd., Detroit, Mich.

derland Rd., Detroit, Mich.
Roark, Eugene W., A.B. Deceased.
Saisselin, E. L., A.B.; agronomist, president of Oswego Ind. Ice Corp.; B. O. & W. Building, Oswego, N. Y., H. 100 W. Fifth St., Oswego, N. Y.
Savage, Joseph W., A.B.; A.M. Columbia Univ.; asst. prof. French and Spanish; Univ. of Vt., Burlington, Vt.‡
Shaw, Charles B., A.B., A.M. 1915; librarian Swarthmore Coll.; B. Swarthmore Coll., Swarthmore, Pa., H. 5 Whittier Place, Swarthmore, Pa.
Smith. Benjamin F., A.B., Deceased.

Smith, Benjamin F., A.B. Deceased. Smith, Raymond M., A.B. Died 1925.

Sproul, Leland S., A.B.; manager, Buffalo office, Halsey Stuart & Co., investment bonds; 509 Liberty Bank Bldg., Buffalo,

Talamo, Joseph, A.B., A.M. 1915; LL.B. 1918 Harvard Univ.; lawyer; B. 390 Main St., Worcester, Mass., H. 1 West

St., Worcester, Mass.

Talbot, Rolfe H., A.B.; cost dept., Simonds Saw and Steel Co.; Lunenberg, Mass.

Taft, Donald R., A.B.; 112 W. Illinois St.,

Urbana, Ill.

Thompson, Thomas G., A.B., Sc.M. 1915 and Ph.D. 1918 Univ. of Wash.; prof. of chemistry; B. Bagley Hall, Univ. of Wash., Seattle, Wash., H. 4002 Burke Ave., Seattle, Wash.

Trafton, F. Lester, A.B.; headmaster; B.

High School, Lisbon, N. H.

Tupper, Frank E., A.B.; teacher French and Spanish; B. Rivers Sch., 290 Dean Rd., Brookline, Mass., H. 59 Brighton Ave., Allston, Mass.

Twining, Ralph H., A.B., Sc.M. 1914 Hobart Coll.; supt. chemistry dept.; B. Cleveland Cliffs Iron Co., Marquette, Mich.

Ward, John T., A.B., A.M. 1916; asst. general manager,; B. M. W. Kellogg Co., Jersep City, N. J., H. 839 Bradford Ave., Westfield, N. J.

Woodhead, Arthur E., A.B., A.M. 1925 and Ph.D., 1927 Univ. of Mich.; asst. prof. zoology; B. Univ. of Mich., Ann Arbor, Mich., H. 1437 E. Park Pl., Ann Arbor, Mich.

### AM.

Averill, Lawrence A., A.M.†

Bankes, Walter J., A.M.; dean; B. Teachers Coll., Univ. of Akron, Akron, Ohio.

Berry, Francis C., A.M., A.B. 1913 Holy Cross Coll.; teacher, H. 245 Park Ave., Worcester, Mass.

Boyajian, Setrak K., A.M.; 858 P. O. Box, Worcester, Mass.

Brown, Thomas L., A.M.†

Burdick, Earl V., A.M., A.B. 1911 Colgate Univ.; teacher, high school; 339 E. 6th St., Plainfield, N. J.

Butler, Walter G., A.M.†

Carney, E. Seaton, A.M., A.B. 1923 Kalamazoo Coll.; Kalamazoo Glass Works. Kalamazoo, Mich.

Chandler, Edward M. A., A.M., A.B. 1913 Howard Univ.; 1412 Lincoln St., North

Chicago, Ill.

Coe, George A., A.M., Ph.D. 1922, B. H. 1909 Int. Y. M. C. A.; B. State Coll., Pullman, Wash.

Crosland, Harold R., A.M., Ph.D. 1916, A.B. 1913 Univ. of S. C.; Univ. of Oreg.,

Eugene, Oreg.

Dawson, Leo H., A.M.† Dickie, Allan, A.M.†

Donlon, Charles A., A.M., A.B. 1913 Holy Cross Coll.; principal, Woonsocket H. S.; 182 Oakley Rd., Woonsocket, R. I.

Dustheimer, Oscar L., A.M., Sc.B. 1913 Ohio Univ., Sc.M. 1925 and Ph.D. 1927 Univ. of Mich.; prof. mathematics and astronomy; B. Baldwin-Wallace Coll., Berea, Ohio, H. 272 Beech St., Berea, Ohio.

Hori, Baiten, A.M., Ph.D. 1916, grad. 1911 Keiogijuku Univ. (Japan); Keio Univ.,

Tokyo, Japan.

Knapp, Merle C., A.M., B.P.E. 1913 Spring-field Y. M. C. A.; asst. secretary and auditor, Safety Savings and Loan Assn.; B. 900 Grand Ave., Kansas City, Mo., H. 5641 Cherry St., Kansas City, Mo.

Kohs, Samuel C., A.M., Sc.B. 1912 Coll. of the City of N. Y., Ph.D. 1919 Stan-

ford; director, Jewish Relief Federation; 305 Washington St., Brook1-n, N. Y.

Mateer, Florence, A.M., Ph.D. 1916, grad. 1906 State Normal Sch., West Chester, Pa.; specialist clinical psychology, private practise; B. Merryheart Private Nursery School for Bright Children, Merryheart Special School for Backward Children. 247 S. 18th St., Columbus, Ohio, H. 1240 Fair Ave., Columbus, Ohio.

Morris, George W., A.M., A.B. 1898 Brown Univ.; supt. schools; B. N. Attleboro, Mass., H. 70 Bank St., N. Attleboro,

Mass.

Muttart, William L., A.M., A.B. 1896

Lebanon Univ.; Hampton, Conn.

McCormick, Clarence, A.M., A.B. 1913 Univ. of Kans., Ph.D. 1929 Columbia Univ.; head of mathematics dept.; B. Southwestern Teachers Coll., Weatherford, Okla., H. 120 W. College Ave., Weatherford, Okla.

McDowell, Floyd M., A.M., A.B. 1911 and Ph.D. 1919 Ia. State Univ.; 701 N. Cot-

tage St., Independence, Mo. O'Connell, John F., A.M.; 564 Millbury St.,

Worcester, Mass.

O'Connell, Joseph V., A.M., A.B. 1913 Holy Cross Coll.; 10 Middle River Rd., Worcester, Mass.

Pleasant, Gault W., A.M., A.B. 1913 Union Christian Coll.; B. Dept. Education, De-

fiance Coll., Defiance, Ohio.

Purnell, John, A.M., A.B. 1913 Harvard
Univ.; principal; School for Physically Handicapped Children; B. Turner Sch., 4235 Kennerly Ave., St. Louis, Mo., H. 4252 Enright Ave., St. Louis Mo.

Shedd, Clarence P., A.M.† Sherman, William R., A.M.†

Williams, Curtis T., A.M., Ph.D. 1917, A.B. 1913 Kansas State Normal Sch.; prof.; B. Univ. of Wash., Seattle, Wash., H. 6280 21st Ave., N. E., Seattle, Wash.

# Ph.D.

Bullard, James A., Ph.D., A.B. 1908 Williams Coll.; prof. mechanics and mathematics; B. Coll. of Engineering, Univ. of Vt., Burlington, Vt., H. 110 Summit St., Burlington, Vt. Campbell, Ivy G., Ph.D.†

Ellis, Robert S., Ph.D., A.B. 1911 Univ. of Ark.; Colorado Coll., Colorado Springs, Colo.

Harrison, Marion M., Ph.D.†

Lyans, Cecil K., Ph.D., A.B. 1909 Univ. of Oreg., A.B. 1913 Univ. of Oxford (England); 36 Grimm Place, Baldwin, L. I., N.Y.‡

McDougle, Ernest C., Ph.D. Sc.B. and C.E. 1891 Normal Univ., Lebanon, A.B. 1893

and A.M. 1895, Southern Normal Univ.; Judge, Madison County Court; mond, Ky. Powers, Wallace F., Ph.D.†

Rosanoff, Lillian, Ph.D. Deceased. Schulze, John F. W., Ph.D.†

# CLASS OF 1915

A.B.

Albert, Harry, A.B., J.D. 1928 Southwestern Univ.; lawyer; B. 1208 Hartwell Bldg., Long Beach, Calif., H. 159 Argonne Ave., Long Beach, Calif.

Aldrin, Edwin E., A.B., Sc.M. 1917 and Sc.D. 1928 M. I. T.; aviation manager, Standard Oil Co. of N. J.; B. 26 Broadway, N. Y. C., H. 25 Princeton Pl., Montclair, N. J.

Bartlett, Ralph S., A.B.; manager, Woonsocket Rubber Co.; 20 Beeching St.,

Worcester, Mass.

Blake, William H., A.B., A.M. Columbia Univ.; teacher, English; B. Horace Mann School, N. Y. C., H. 35 Claremont Ave., N. Y. C.

Champ, Anthony M., A.B., physician; 23

Main St., Brockton, Mass

Curtis, Roswell F., A.B., A.M. 1917; sales dept., American Steel and Wire Co., N. Y. C.

Davis, Arthur E., A.B.; 54 Maple St.,

Brattleboro, Vt.

Elliott, Clarence H., A.B., A.M. 1916; head history dept.; B. Sr. H. S., 110 W. Main St., Meriden, Conn., H. Litchfield, Conn.

Feingold, Louis S., A.B., LL.B. 1918 Harvard Univ.; lawyer; B. 1031-32 Slater Bldg., Worcester, Mass., H. 925 Pleasant St., Worcester, Mass.

Fisher, Roy M., A.B.; Rockefeller Hall, Cornell Univ., Ithaca, N. Y. Fitchet, Seth M., A.B., M.D. 1921 and B.P.H. 1923 Harvard Univ., F.A.C.S. 1928 American Coll. of Surgeons; surgeon; B. 319 Longwood Ave., Boston, Mass., H. 992 Beacon St., Newton Center, Mass.

Forbush, Guy J., A.B.; teacher French; B. 10 Bishop Hall, Phillips Academy,

Andover, Mass.

Geldard, Walter J., A.B., Sc.M. 1917 Mc-Gill Univ.; asst. manager, Product Specification Dept.; B. Fisk Rubber Co., Chicopee Falls, Mass., H. 120 E. Alvord St., Springfield, Mass.

Goldblatt, Myron E., A.B., M.D. 1922 Johns

Hopkins Univ.; obstetrician; B. 103 East 84th St., N. Y. C. Greenwood, Wallace W., A.B.; secretary, Bay State Abrasive Products Co.; B. Westboro, Mass., H. 16 May St., Worcester, Mass.

Hicks, Charles R., A.B., A.M. 1922 Stanford Univ.; asso. prof.; B. Univ. of Nev., Reno, Nev., H. 335 Cheney St., Reno, Nev.

Husband, Archie B., A.B.; 311 West 4th St., Long Beach, Calif.‡

Jacobs, Wilmarth I., A.B., Ed.M. 1928 Harvard Univ.; head physics dept., The Mercersburg Academy; B. Box 46, Mercersburg, Pa., H. Linden Ave., Mercersburg,

Johnson, C. David, A.B.; teacher; B. Tufts Medical Sch., Boston, Mass., H. 8 Tupelo

Rd., Worcester, Mass.

Lanois, J. Henry, A.B.; Julian Ave., Wor-

cester, Mass.‡

Lansing, Joseph T., A.B., A.M. 1916; sales promotion manager; B. Robert Bosch Magneto Co., N. Y. C.; H. 11 Grove Ter., Montclair, N. J. McDougle, Ivan E., A.B., A.M. 1916, Ph.D.

1918; prof. economics and sociology; B. Goucher Coll., Baltimore, Md., H. 1900

East 31st St., Baltimore, Md.

Paine, Merrill P., A.B.; head English dept.,
high school; 55 Belmont St., New

Haven, Conn.

Pratt, Carroll C., A.B., A.M. 1916, Ph.D. 1921; asst. prof. psychology and tutor in the Division of Philosophy, Harvard Univ.; B. Emerson Hall, Harvard Univ., Cambridge, Mass., H. 114 Foster St., Cambridge, Mass.

Shea, Theodore E., A.B., A.M. 1925 Columbia Univ.; principal; Buckingham H.

S., Berlin, Md.

Sheehan, John F., A.B.; 76 Walnut St.,

Natick, Mass.

Small, Max, A.B., A.M. 1917 Columbia Univ.; director, Lincoln Prep. School; B. 98 College St., New Haven, Conn., H. 422 Whitney Ave., New Haven, Conn.

Smith, Lawrence, A.B., A.M. 1916; asst. prof. economics; B. Wellesley Coll., Wellesley, Mass., H. 15 Appleby Rd., Wellesley, Mass.

Stearns, George E., A.B.; chemist, Wyman and Gordon; H. 118 Fairfield St., Worcester, Mass.

Todd, Leonard C., A.B.; salesman; 158 Institute Rd., Worcester, Mass.

Webster, Clarence M., A.B., A.M. 1916 Univ. of Mich.; prof. English; B. Battle Creek Coll., Battle Creek, Mich., H. 205 N. Kendall St., Battle Creek, Mich.

Wilson, William J., A.B.; asst. sales manager; 1435 Walnut St., Western Springs,

Woodbury, Harold D., A.B.; secretary and treasurer, Woodbury & Co., Inc.; 15 Kimball St., Worcester, Mass.

#### A.M.

Bishop, John E., A.M. Died 1919 Chatterjee, Manmath N., A.M., A.B. 1908 Panjuh Univ., India; prof. social science; Antioch Coll., Yellow Springs, Ohio.

Covitt, Louis D., A.M., A.B. 1913 Ky. State

Darby, Edward H., A.M.†

Dealey, Hermoine L. (See Dvorak, Hermione, L.)
Dexter, Wilbur B., A.M., Ph.D. 1917, Sc.B.

1914 Colby Coll.; asst. director research laboratories, National Carbon Co.; B. Box 400, Cleveland, Ohio, H. 1247 Edwards Ave., Lakewood, Ohio.

Douglass, Aubrey A., A.M., Ph.D. 1917, A.B. 1912 Kans. State Normal Sch.; head dept. education; B. Claremont College, Claremont, Calif., H. 275 W. 10th St., Claremont, Calif. Dunham, Francis L., A.M. Died 1927.

Dvorak, Mrs. H. L. (Dealey, Hermione L.), A.M., Ph.B. 1918 Brown Univ.; lecturer in the Extension Division (Education); B. Univ. of Wash., Seattle, Wash., H. 5531 34th Ave., N. E., Seattle, Wash. Elliott, Robert N., A.M., A.B. 1910 Emory

and Henry Coll., Perry, Okla.

Folsom, Joseph K., A.M., Sc.B. 1913 Rutgers Univ., Ph.D. 1917 Columbia Univ.; prof. economics and sociology; B. Sweet Briar Coll., Sweet Briar, Va.

Guerin, Mary E., A.M., A.B. 1914 Middlebury Coll.; teacher; B. North H. S., Worcester, Mass., H. 34 Shaffner St., Wor-

cester, Mass.

Huffman, Charles H., A.M., A.B. 1914 Bridgewater Coll., Ph.D. 1920 Univ. of Va.; prof. English; B. State Teachers Coll., Harrisonburg, Va., H. 271 Grattan St., Harrisonburg, Va.

Kagevama, Chimaki, A.M., grad. 1905 Bun Gaku Shi Waseda Univ. (Tokyo); teach-

er, Univ. of Tokyo, Tokyo, Japan; Iwamatsu-Mura, Suruga, Japan.

Lewis, Charles B., A.M., M.D. 1909 Tufts
Coll.; director, school health, B. 9 Exchange Ter., Providence, R. I.

Morse, Margaret (See Nice, Mrs. Margaret M.).

McCorkle, Charles E., A.M., Ph.B. 1909 Ohio Univ.; supt. of schools; B. 46 Jackson St., Morgantown, W. Va.

Nice, Mrs. Margaret M. (Morse, Margaret), A.M., A.B. 1906 Mt. Holyoke Coll.; independent research in child psychology and ornithology; H. 156 W. Patterson Ave., Columbus, Ohio.

O'Brien, John C., A.M.†

Prohaska, George A., A.M. Died 1918. Randolph, Vance, A.M., Sc.B. in Ed. State Manual Training Normal; write books and articles on popular science; H. 303 W. Euclid Ave., Pittsburg, Kans.

Richmond, Winifred V., A.M., Ph.D. 1919 Sc.B. in Ed. 1910 Ohio Univ.; psychologist; B. Asso. Clinical Psyc., St. Elizabeth's Hospital, Washington, D. C.

Robinson, Bruce B., A.M., A.B. 1914 Baker

Univ., M.D. 1919 Harvard Univ; director, Child Guidance Dept., Newark Public Schools; B. 31 Green St., Newark, N. J., H. 16 Park Pl., Newark, N. J.

Schneider, Samuel P., A.M., A.B. 1914 Univ. of S. C.; principal, Shandon and Wayerley Schools; 2414 Cypress St., Columbia,

S. C.

Shaw, Charles B., A.M.† Smith, Gertrude (See Sister Marie Virginia, S.N.D.).

Talamo, Joseph, A.M.†

Thomas, Adrian, A.M., Sc.B. 1914 Richmond Coll.; asso. chemist; B. Huron Milling Co., Harbor Beach, Mich.
Thompson, Louis T. E., A.M., Ph.D. 1917,

Sc.B. 1914 Kalamazoo; Naval Proving

Ground, Dahlgren, Va. Virginia, Sister Marie, S.N.D. (Smith, Gertrude), A.M.; Academy of Notre Dame, Adams St., Lowell, Mass.

White, Carl M., A.M.† Ph.D.

Averill, Lawrence A., Ph.D.†

Brightman, Charles L., Ph.D., A.M. 1909 and Ph.B. 1909 Brown Univ.; prof. physics; B. Syracuse Univ., Syracuse, N. Y., H. 852 Ackerman Ave., Syracuse, N. Y.

DeBusk, Burchard W., Ph.D.; Univ. of Oreg., Eugene, Oreg. Harrington, Elmer A., Ph.D.;

Hayes, William H., Ph.D., A.B. 1895 Wesleyan; clergyman; B. Community Congregational Church, Miller, Ind.

Jones, George Ellis, Ph.D.†

Kubo, Yoshihide, Ph.D., grad. 1909 Tokyo Imperial Univ., Bungakuhakushi 1924; prof. psychology; B. Hiroshima Univ., Hiroshima, Japan; H. 584 Sendamachi, Hiroshima, Japan.

onger, William T., Ph.D., A.B. 1909 Bridgewater Coll., A.M. 1910 Ind. Univ., LL.D. 1926 Hampden Sidney Coll.; president; B. The Medical Coll. of Va., Richmond, Va., H. 4710 Kensington Ave., Richmond, Va.

Snoddy, George S., Ph.D., A.B. and Sc.B. 1912 and A.M. 1913 Univ. of Kans.; prof. psychology; B. Ind. Univ., Bloomington, Ind., H. 716 Woodlawn Ave., Blooming-ton, Ind.

Stimson, Harold F., Ph.D.† Wheeler, Raymond H., Ph.D.†

Wilson, Edward C., Ph.D., A.B. 1887 Mil-

ligan Coll.; teacher psychology and education; B. Lynchburg Coll., Lynchburg, Va.

# CLASS OF 1916

# A.B.

Atwood, Leland L., A.B., A.M. 1922 and Ph.D. 1927 Cornell; asst. prof. romance

Ph.D. 1927 Cornell; asst. prof. romance languages; B. Clark Univ., Worcester, Mass., H. 68 Mann St., Worcester, Mass. Blanchard, Harold H., A.B., A.M. and Ph.D. 1921 Harvard Univ.; asst. prof. English; B. Tufts Coll., Tufts College, Mass., H. 119 College Ave., W. Somerville, Mass.

Brierly, John E., A.B., A.M. 1917; teacher, high school; 646 North St., Pittsfield,

Mass.

Brigham, Harold K., A.B., M.D. 1920 Medical Coll. New York; physician, general practise; 55 May St., Worcester, Mass.

Burnham, Guy H., A.B., A.M. 1922; cartographer; B. Clark Univ., Worcester, Mass., H. 19 Woodman Rd., Worcester, Mass.

Cole, Franklin E., A.B.; real estate and insurance; H. 12 Glendale St., Worces-

ter, Mass.

Darling, Eugene A., A.B.; secretary and director, International Ores and Metals Selling Corp., agents of Minerais and Metaux and L'Aluminum Français, Paris; B. 60 Broad St., N. Y. C., H. 130 E. 39th St., N. Y. C.

Dawson, Paul R., A.B., A.M. 1921 Univ. of N. C.; asso. bio-chemist in charge of cotton root and soil fertility investiga-tion in Tex.; B. U. S. Dept. of Agricul-ture, Bureau of Chemistry and Soils, P. O. Box 1181, Austin, Tex., H. 3114 West Ave., Austin, Tex.

Eells, Hastings, A.B., A.M. 1918 and B.D. 1919 Princeton Univ., Ph.D. 1921 Yale Univ.; asso. prof. history; B. Ohio Wesleyan Univ., Delaware, Ohio, H. 57 N. Washington St., Delaware, Ohio. Ellsworth, Frank H., A.B., A.M. 1917; chemist, Morgan Construction Co.; 42 Barrett Ave., Worcester, Mass.

Foster, George P., A.B.; teacher; B. Jr. H. S., Worcester, Mass., H. 12 Columbus St., Worcester, Mass.

Gifford, Raymond T., A.B.; banking; B. 70 Federal St., Boston, Mass., H. 93 Plymouth Rd., Newton Highlands, Mass.

Ginsburg, Maynard, A.B.; shoe dealer; 174

Harvard St., Dorchester, Mass. Hartz, George E., A.B.; operation and enand Telegraph Co., 195 Broadway, N. Y. C., H. 5 Columbus Ave., Glen Ridge, N. J. Joyce, Thomas B., A.B., M.D. 1920 Cornell Univ.; physician; H. 925 First St., Peekskill, N. Y.

Judson, Lewis V., A.B., A.M. 1917, Ph.D. 1925 Johns Hopkins Univ.; physicist, chief of Length Section; B. U. S. Bureau of Standards, Washington, D. C., H. 3417 Northampton St., N. W., Washington, D. C.

Lehrer, Leib, A.B., A.M. 1917; teacher; B. Jewish Teachers Semin., 427 Lafayette St., N. Y. C., H. 1865 65th St., Brook-lyn, N. Y.

Levensohn, Abraham S., A.B.; wool dealer; 184 Summer St., Boston, Mass.

Lubin, Isador, A.B., Ph.D. 1926 Robert's; 26 Jackson Pl., Washington, D. C. Magoun, George L., A.B.; research chem-

ist; B. Rubber Service Laboratories Co., Nitro, W. Va., H. 67 21st St., Nitro, W. Va.

Mason, Harry, A.B., LL.B. 1919 Harvard Univ.; lawyer; B. 411-412 Bay State Bldg., Lawrence, Mass., H. 541 Haverhill St., Lawrence, Mass.

Merriam, George H., A.B., A.M. 1927; grammar school principal; B. Adams Square Sch., Worcester, Mass., H. 18 Ferdinand

St., Worcester, Mass.

Morlock, George A., A.B.; private secretary to Undersecretary of State; 405 Delafield Pl., N. W., Washington, D. C.

Morse, Laurence P., A.B.; 69 Forest St.,

Wellesley Hills, Mass.

McCrillis, Jacob W., A.B.; district supt., Mutual Life Ins. Co. of N. Y.; 11 Sutter St., San Francisco, Calif.

Nelson, Ernest W., A.B., A.M. 1921, Ph.D. 1925 Cornell Univ.; asst. prof. history; B. Duke Univ., Durham, N. C.

Oldenburg, William H., A.B.; ranching; Sayle, Mont.

Otis, Paul H., A.B.; Division Traffic Supervisor, Western Division, Mich., Bell Telephone Co.; B. 1365 Cass Ave., Detroit, Mich., H. 15426 Steel Ave., Detroit, Mich.

Prince, Arthur L., A.B., Sc.M. 1920 M. A. C.; asst. soil chemist and asst. prof. in soil chemistry at Rutgers Univ. and N. I. Experiment Station; B. Agricultural Experiment Station, College Farm, New Brunswick, N. J., H. 25 Handy St., New Brunswick, N. J.

Robinson, Harold C., A.B. Deceased.

Sage, David, A.B., A.M. 1917; teacher; B. Milton Academy, Milton, Mass., H. 390 Randolph Ave., Milton, Mass.

Sloan, Harold H., A.B.; 3 Durant Way, Worcester, Mass.

Sottery, C. Theodore, A.B., A.M. 1923 and Ph.D. 1925 Columbia Univ.; chemistry dept.; B. St. Stephens Coll. of Columbia Univ., Annandale-on-Hudson, N. Y., H. St. Stephens College Campus, Annandaleon-Hudson, N. Y.
Sturges, Harold M., A.B.; specialist in per-

sonal estate building; B. 886 Main St., Bridgeport, Conn., H. Wakeman Rd.,

Fairfield, Conn.

Sumner, Francis C., A.B., Ph.D. 1920, asso. prof. psychology and acting head of dept.; B. Howard Univ., Washington, D. C., H. 1116 Fairmont St., N. W., Washington, D. C.

Talamo, Haskell, A.B., M.D. 1926 Harvard Univ.; physician—practice limited to infants and children; B. 27 Elm St., Worcester, Mass., H. 6 Tahanto Rd., Wor-

cester. Mass.

Thompson, Luther S., A.B., Ph.D. 1925 Univ. of Ill.; Mayo Clinic, Rochester, Minn.

Townsend, Frank A., A.B.; salesman; 55

Marvel Rd., New Haven, Conn.

Ward, Henry P., A.B.; asso. prof. chemistry; B. The Catholic Univ. of America, Washington, D. C.

White, Leslie B., A.B.; chemist, bacteriologist, etc., extract and syrup maker; B. Simpson Spring Co., S. Easton, Mass., H. Eastondale, Mass.

#### A.M.

Allison, Vernon C., A.M., A.B. 1914 State Manual Train. Normal Sch.; Bureau of Mines; H. 4800 Forbes St., Pittsburgh,

Bentley, John E., A.M., Ph.D. 1915 McGill Univ., St.B. 1917 and M.R.E. 1918 Boston Univ., D.Theol. 1923 Montreal; head dept. education and psychology, Coll. of Liberal Arts, prof. psychology, Graduate Sch.; B. American Univ., Washington, Sch.; B. American Univ., Washington, D. C., H. 4529 Lowell St., N. W., Washington, D. C. Brennan, Mrs. Fred J. (Kneeland, Ger-

trude E.), A.M., A.B. 1915 Brown Univ.; H. 51 Hollywood St., Worcester, Mass. Brooks, James F., A.M., A.B. 1914 Univ. of S. C.; principal, West End School; H. 177 Carlisle St., Spartanburg, S. C.

Burgess, Mrs. S. A., A.M., A.B. 1914 Cornell Univ.; Box 934, Del Rio, Tex. Conley, Fred C., A.M., B.Ped. 1914 Bethany

Coll.; asst. principal, teacher science; B. Lyon District H. S., Newburg, W. Va. Conlin, James F., A.M., A.B. 1915 Holy

Cross Coll.; Fall River Continuation Sch.; 24 Cargill Ave., Worcester, Mass.

Day, Lorey C., A.M.† Elliott, Clarence H., A.M.† Ferguson, Harold A., A.M.†

Gibney, Carroll N., A.M.† Gist, Nathan H., A.M., D.D.S. 1908 North-western; editor and minister; Leomins-

ter, Mass.

Greisheimer, Esther M., A.M., Sc.B. in Ed. 1914 Ohio Univ., Ph.D. 1919 Univ. of Chicago, M.D. 1923 Univ. of Minn.; asst. prof. physiology; B. Millard Hall, Univ. of Minn., Minneapolis, Minn., H. 515 Delaware S. E., Minneapolis, Minn.

Hancock, Thomas, A.M., Ph.D. 1918. Died

1929.

King, James, A.M., Ph.D. 1918, A.B. 1912 Oskaloosa; Olivet Coll., Olivet, Mich.

Kneeland, Gertrude E. (See Brennan, Mrs.

Fred J.).

Kurihara, Shinichi, A.M., Ph.D. 1918, B.D. 1915 Drew Theol. Semin.; 431 Nakashibuya, Tokyo, Japan. Lansing, Joseph T., A.M.†

Long, Howard H., A.M., Sc.B. 1915 Howard Univ.; asst. supt. in charge of Research Division, public schools; 717 East

St., N. E., Washington, D. C.

Mooney, William B., A.M., Pd.B. 1902 and
Pd.M. 1903 State Normal Sch. of Colo.,
A.B. 1910 State Teachers Coll. of Colo.; executive secretary, Colo. Ed. Assn.; 530 Commonwealth Bldg., Denver, Colo. Mccre, Clyde B., A.M., A.B. 1912 Neb. Wesleyan Univ., Ph.D. 1920 Columbia Univ.;

prof. education; B. Caldwell Hall, Cornell Univ., Ithaca, N. Y.

McDougle, Ivan E., A.M.†

O'Hara, V. W., A.M., A.B. 1914 Fairmont Coll.; American Consul, Barcelona. Spain.‡

Parker, Henry C., A.M., Ph.D. 1920, Sc.B. 1915 Kalamazoo Coll.; patent attorney; B. Victor Bldg., Washington, D. C., H. 708 Longfellow St., N. W., Washington,

Peabody, LeRoy E., A.M., Sc.B. 1915 Norwich Univ.; highway economist, Bureau of Public Roads, U. S. Dept of Agriculture; B. Box 77, West Falls, Church, Va.

Pratt, Carroll C., A.M.†

Rial, David W., A.M., Sc.B. 1910 Lafayette Coll., B.Pd. 1915 S.N.S.; vice-principal; B. Frick Teachers Training Sch., Teachers Training Institution for City of Pittsburgh, Pittsburgh, Pa., H. 761 Princeton Blvd., Wilkinsburg, Pa. Ryan, Francis A., A.M., Ph.B. 1915 Boston

Ed.M. 1925 Harvard Univ., Ph.D. Coll., 1930 Boston Coll.; schoolmaster; B. Bennett School, Somerville, Mass., H. Canton, Mass.

Smith, Lawrence, A.M.†

Waits, Benjamin L., A.M., A.B. 1914 Howard Univ.; Wilberforce Univ., Wilber-

ward, John T., A.M.; Ward, John T., A.M.; Ware, Alfred T., A.M., A.B. 1892 Univ. of Penn.; pastor; B. Oak St. Friends Church, Portland, Me., H. 165 Hartley St., Portland, Me.

Zeuch, William E., A.M., A.B. 1915 Lenox Coll., Ph.D. 1926 Univ. of Wis.; director; B. Commonwealth Coll., Mena, Ark.

### Ph.D.

Andress, J. Mace, Ph.D., A.B. 1905 Mich. State Normal Coll., Ph.M. 1906 Univ. of Chicago, A.M. 1908 Harvard Univ.; teacher psychology, Boston Sch. Phys. Ed., Mass., Sch. of Art, Wheelock Sch., Editor, Dept. of Health and the School, Hygeia, The Health Mag.; H. 67 Clyde St., Newtonville, Mass.

Calhoun, Arthur W., Ph.D., A.B. 1906 Univ. of Pittsburgh, A.M. 1913 Univ. of Wis.; prof. history, Limestone Coll.; B. Box 322, Gaffney, S. C., H. Vernon St., Gaff-

ney, S. C.
Crosland, Harold R., Ph.D.†
Dealey, William L., Ph.D., A.B. and A.M.
1913 Brown Univ.; 191 Cherry Ave.,

Oshkosh, Wis.‡

Dooley, Lucile, Ph.D., A.B. 1905 Randolph-Macon, A.M. 1915 Univ. of Tenn., M.D. 1922 Johns Hopkins Univ.; psychiatrist in private practise; H. 1910 Kalorama Rd., Washington, D. C.

Hori, Baiten, Ph.D.†

Leyzerah, Peysah, Ph.D., grad. 1911 Real Gymnasium (Russia) (lost).

Mateer, Florence, Ph.D.†

Meyerhardt, Maurice W., Ph.D.; manager; B. 8 Westminster St., Worcester, Mass.

O'Brien, Frank J., Ph.D.†

Peck, Edward B., Ph.D., Ph.B. 1912 Brown Univ., Sc.M. 1914 M. I. T.; 180 Lincoln

Ave., Elizabeth, N. J.

Smith, Frederick M., Ph.D., Sc.B. 1898 Graceland Coll., A.M. 1911 Kansas Univ.; president, Reorganized Church of Jesus Christ of Latter Day Saints; B. The Auditorium, Independence, Mo., H. 4147 Agnes Ave., Kansas City, Mo.

Treudley, Mary B., Ph.D., A.B. 1906 Ohio Univ., A.M. 1910 Univ. of Chicago; instr.; B. Wellesley Coll., Wellesley, Mass., H.

Horton House, Wellesley, Mass.

# CLASS OF 1917

# A.B.

Bean, Francis J., A.B., M.D. 1923 Cornell Univ.; physician and hospital executive; B. University Hospital, Omaha, Nebr.

Bodfish, Robert W., A.B., LL.B. 1922 Harvard Univ.; lawyer; B. 31 Elm St., Springfield, Mass., H. 106 Washington Rd., Springfield, Mass.

Brennan, Fred J., A.B., A.M. 1918; instr.; B. Classical H. S., Worcester, Mass., H. 51 Hollywood St., Worcester, Mass. Bullard, Ralph H., A.B., A.M. 1918, Ph.D.

1925 Brown Univ.; prof. chemistry; B. Hobart Coll., Geneva, N. Y., H. 210 Washington St., Geneva, N. Y. Clark, John B., A.B.; vice-principal and science teacher; B. High School, Wilson

liamstown, Mass.

Dickey, Earl H., A.B.; agent, Mutual Benefit Life Insurance Co.; B. 436 Mich. Trust Bldg., Grand Rapids, Mich., H. 1058 Benjamin S. E., Grand Rapids, Mich.

Dunham, Earl T., A.B.; asst. zone sales manager; B. Chevrolet Motor Co., 410

manager; B. Chevrolet Motor Co., 410 Chapman Bldg., Portland, Me.

Fuller, Raymond G., A.B.; research director, State Charities Aid Assn.; B. 105 E. 22nd St., N. Y. C., H. 15 Gramercy Park, N. Y. C.

Goodearl, Arthur W., A.B.; banker; H. Royal Hotel, Prat 81, Valparaiso, Chile. Haire, Paul G., A.B., M.D. 1921 Harvard Liniy: physician; B. 6. Pleasant St. Mal.

Univ.; physician; B. 6 Pleasant St., Malden, Mass., H. 12 Highland Terrace, Medford, Mass.

Hanson, Frank W., A.B.; sub-master and head of science dept.; B. Wilby H. S., Waterbury, Conn., H. 213 Frost Rd., Waterbury, Conn.

Harris, Frank, A.B.; business; 463 Bank

St., New London, Conn.

Illingworth, Robert S., A.B., A.M. 1926 Lafayette; headmaster; B. The Swavely Sch., Manassas, Va.

Jones, Carl E., A.B., A.M. 1918; economist; B. Dennison Mfg. Co., Framingham, Mass., H. Box 407, Ashland, Mass.

Leavitt, Joseph, A.B.; jobber of automotive supplies and equipment; B. 110 Southbridge St., Worcester, Mass., H. 15 Brantwood Rd., Worcester, Mass.

Livermore, Charles R., A.B. Died 1918.

Lundgren, LeRoy E., A.B.; manufacturers representative; 13614 Wark Ave., Detroit, Mich.

Mooradkanian, Gregory, A.B., LL.B. 1923 Harvard Univ.; 124 Haverhill St., Lawrence, Mass.

O'Brien, George F., A.B.; 709 South Ash-

land Blvd., Chicago, Ill.‡

Perrin, Lloyd W., A.B.; teacher history; B. Deerfield Academy, Deerfield, Mass.

Pitlick, Samuel, A.B., A.M. 1918 Univ. of Chicago; principal, Jewish Educational

Center; B. 508 Moore St., Philadelphia, Pa., H. 830 Pine St., Philadelphia, Pa. Richardson, Edgar B., A.B.; salesman; 4 Humbolt St., Cambridge, Mass. Russell, Robert P., A.B., Sc.M. 1922 M. I. T.; asst. prof. chemical engineering; 1829

Tulip St., Baton Rouge, La. Shukle, Revashenker M., A.B., M.D. 1921 Harvard Univ., LL.B. 1926 Suffolk Law Sch.; physician; B. 520 Beacon St., Boston, Mass., H. 307 Clifton St., Malden, Mass.

Smith, Everett H., A.B.; 37 Oakley Rd.,

Belmont, Mass.

Stanton, Joseph M., A.B.; head modern language dept., high school; 52 Reding-

ton St., Swampscott, Mass.

Stevenson, Eugene; A.B.; supervisor of training, Commercial dept., Michigan Bell Telephone Co., B. 1365 Cass Ave., Detroit, Mich., H. 59 Seward St., Detroit, Mich.

Titchener, John B., A.B., Ph.D. 1923 Univ. of Ill.; instr. classics; B. Harvard Coll., Cambridge, Mass., H. 1648 Mass. Ave., Cambridge, Mass. True, Walter F., A.B.; principal, high

school; Randolph Vt.

Williams, Cecil R., A.B. Deceased.

#### A.M.

Allen, Mildred, A.M., Ph.D. 1922, A.B. 1916 Vassar; research in physics; B. Bartol Research Foundation, Swarthmore, Pa., H. 88 Montview St., W. Roxbury, Mass. Balch, Royal T., A.M., Sc.B. 1916 Kala-mazoo Coll.; R. F. D. 8, Kalamazoo,

Bird, Charles, A.M., Ph.D. 1920, B.H. 1916 Springfield Y. M. C. A. Coll.; asso. prof. psychology, Univ. of Minn., Minneapolis, Minn.

Brierly, John E., A.M.†

Brooks, Elizabeth, A.M., A.B. 1914 Moores Hill Coll.; principal; B. Ill. Sch. for the Blind, Jacksonville, Ill., H. 416 S. Prairie St., Jacksonville, Ill.

Charbonneau, Genevieve A. J. (See Farwell, Mrs. Genevieve).

Chiu, Chung Yen, A.M., Ph.D. 1920, A.B. 1915 Univ. of Calif.; Nan-Kai Coll., Tientsin, China.

Clark, Elmer B., A.M. Died 1919. Curtis, Roswell F., A.M.†

Dabbs, James M., A.M., A.B. 1916 Univ. of S. C.; prof. English, head of dept.; B. Coker Coll., Hartsville, S. C. Day, Thomas E., A.M., A.B. 1916 Holy

Cross Coll.; General Motors Acceptance

Corp.; Atlanta, Ga.‡ Ellsworth, Frank H., A.M.†

Evans, Walter H., A.M., A.B. 1915 Oska-

loosa Coll.; clergyman; 156 8th St., Pacific Grove, Calif.\$

Farwell, Mrs. Genevieve (Charbonneau, Genevieve A. J.), A.M., A.B. 1916 N. H. Coll.; family welfare visitor; 13 Fulton St., Nashua, N. H. Fryer, H. Douglas, A.M., Ph.D. 1923, B.H.

1914 Springfield; administration chairman, dept. psychology; B. N. Y. Univ., University Heights, N. Y. C., H. 151 West 10th St., N. Y. C.

Judson, Lewis V., A.M.† Lehrer, Leib, A.M.†

Miller, Kelly, Jr., A.M., Sc.B. 1916 Howard Univ.; 2225 4th St., N. W., Washington, D. C.

Mitchell, Lily E., A.M., A.B. 1916 Maryville Coll,; director, Division Child Welfare, North Carolina State Board Public Welfare; B. State Board Charities and Public Welfare, Raleigh, N. C., H. Rt. 1, Cary, N. C.

Pierrel, Gren O., A.M., Sc.B. 1913 Penn. Coll.; Y. M. C. A., 19 La Salle St., Chicago, Ill.

Pond, Samuel E., A.M., Ph.D. 1921, B.H. 1912 Springfield; asst. prof. physiology, Sch. of Medicine, Univ. of Penn.; B. 36th and Pine Sts., Philadelphia, Pa., H. 2422 Brighton Ave. Proved Hill Re.

H. 3433 Brighton Ave., Drexel Hill, Pa. Power, Francis W. (S.J.), A.M., A.B. 1915 Holy Cross Coll., Sc.D. 1926 Fordham Univ.; theol. student and asst. prof. chemistry; B. Weston Coll., Weston, Mass.

Sage, David, A.M.†

Walsh, Henry C., A.M., A.B. 1915 Holy Cross Coll.; teacher; B. High School of Commerce, Worcester, Mass., H. 20 Abbott St., Worcester, Mass.

Weeks, Angelina L., A.M., A.B. 1894 Mt. Holyoke Coll., Ph.D. 1928 Columbia Univ.; clinical psychology and teaching; H. 40 Noblehurst Ave., Pittsfield, Mass.

Wood, Ernest R., A.M., A.B. 1916 Ohio Univ., Ph.D. 1923 Univ. of Chicago; asso. prof. education, Ohio State Univ., director of Scholarship Contests, director of Instructional Research; B. State Dept. of Education, Columbus, Ohio, H. 394 West Seventh Ave., Columbus, Ohio.

Zigler, Michael J., A.M., A.B. 1916 Bridge-water Coll.; 19 Appleby Rd., Wellesley,

Yokogawa, Yosohachi, A.M.; Kobe Coll., Kobe, Japan.

Ph.D.

Bellamy, Raymond, Ph.D.† Benda, Theodore, Ph.D. Died 1922. Boghosian, Hagop B., Ph.D., grad. 1911

Apostolic Coll. (Turkey), A.M. 1915 Columbia Univ.; oriental rug business; 1375 N. Los Robleco Ave., Pasadena, Calif.

Bowman, Ethel, Ph.D., A.B. 1900 and A.M. 1907 Wellesley Coll.; prof. psychology; B. Goucher Coll., Baltimore, Md., H. Cohasset, Mass.

Darby, Edward H., Ph.D.† Dexter, Wilbur B., Ph.D.† Douglass, Aubrey A., Ph.D.†

Jacobs, Edwin E., Ph.D., Ph.B. 1901 Wooster Univ., Sc.M. 1904 Mt. Union; president; B. Ashland Coll., Ashland, Ohio.

Knight, Melvin M., Ph.D., A.B. and A.M. 1913 Tex. Christian Univ.; 2540 Cedar

St., Berkeley, Calif.

Reymert, Martin L., Ph.D., grad. 1904 Army Officers Sch., Oslo, grad. 1905 State Normal Sch., Examen Philosophicum 1906 Univ. of Oslo; See "Who's Who in America" and "Psychological Register"; B. Whittenberg Coll., Springfield, Ohio, H. Hotel Bancroft, Spring-field, Ohio.

St. John, Ancel, Ph.D., Ph.B. 1906 Univ. of Rochester; consulting physicist; B.

505 Fifth Ave., N. Y. C., H. 330 East 52nd St., N. Y. C. Slade, William F., Ph.D., B.D. 1913 Bangor Theol. Semin., A.B. 1913 Bates, A.M. 1914 Harvard Univ.; pastor, So. Congregational Chuch; 3972 Lake Pk. Ave., Chicago, Ill.

Teachout, Robert B., Ph.D., A.B. and A.M. 1914 Dartmouth Coll.; chairman, Rating Schedule Board; B. U. S. Veteran's Bureau, Washington, D. C., H. 3605 R. St., N. W., Washington, D. C.

Thompson, Louis T. E., Ph.D.† Williams, Curtis T., Ph.D.†

Zeldin, Samuel D., Ph.D., grad. 1913 Real Gymnasium (Russia); Mass. Inst. of Tech., Cambridge, Mass.

#### CLASS OF 1918

A.B.

Bassett, John J., A.B.; Vigan, Ilocof fur, Philippine Islands.

Brierly, Ralph C., A.B.; mechanical engineer; 104 Essex Ave., Narberth, Pa.

Brooks, Bernard F., A.B.; teacher; B. High School of Commerce, Worcester, Mass.,

H. 22 Russell St., Worcester, Mass. Burke, Winthrop M., A.B., A.M. 1920: chemist; B. Standard Oil Co., Richmond. Calif., H. 3633 Garvin Ave., Richmond, Calif.

Callis, Conrad C., A.B., A.M. 1920, Ph.D. 1922; research chemist; H. P. O. Box 332, Oakmont, Allegheny Co., Pa.

Civen, Nathan, A.B.; chemist; B. Re-

search Laboratories of National Dairy Products Corp., 1403 Eutaw Pl., Balti-

more, Md.

Clee, F. Raymond, A.B., B.D. 1922 Union Theol. Semin.; clergyman; B. Old Bergen Church, 797 Bergen Ave., Jersey

City, N. J.

Cook, Leon W., A.B.; research chemist;
B. The Texas Co., Bayonne, N. J., H.

450 E. 4th Ave., Roselle, N. J.

Ericson, Folke E., A.B.; asst. sales manager; B. S. K. F. Industries, Inc., 40 E. 34th St., N. Y. C., H. 100 Northfield Rd., W. Orange, N. J.

Feinsilver, Joseph E., A.B.; certified public accountant; B. 311 Pemberton Bldg., Boston, Mass., H. 26 Pratt St., Malden,

Mass.

Fenn, Edward B., A.B. Deceased.

Flagg, A. Glennon, A.B., M.D. 1923 Cornell Univ.; physician and surgeon; 440 W. 34th St., N. Y. C.

Gifford, Frederick O., A.B., Ed.M. 1929 Harvard Univ.; teacher; B. Boston Trade Sch., Boston, Mass., H. 29 Thayer Rd., Waverly, Mass.

Harriman, Edward N., A.B.; manager, Engineering and Service Dept., Gilmour Rothery & Co.; B. 40 Broad St., Boston, Mass., H. 111 Salisbury Rd., Brookline. Mass.

Hillman, Samuel I., A.B.; manager, Fields Inc.; 56 Garden St., Hartford, Conn.

Jasem, Saul I., A.B., Sc.B. and D.D.S. 1925 Columbia Univ.; surgeon dentist; B. 200 E. 116th St., N. Y. C., H. 790 Mott St., Bronx, N. Y.

Kuniholm, C. Harry, A.B.; 25 Westford St., Gardner, Mass.

Levensohn, Hyman J., A.B., S.B.T. 1921 M. I. T.; wool merchants; 12 Gibbs St., Brookline, Mass.

Mattfield, Henry W., Jr., A.B.; senior master; B. Virginia Episcopal School, Lynchburg, Va.

Mellor, Earl G., A.B., A.M. 1926 Harvard Univ.; instr. romance languages, Harvard Univ.; B. 18 Conant Hall, Cambridge, Mass., H. c/o Dr. J. E. Rochette, 15 Colonial Rd., Worcester, Mass.

Mitchell, Archibald W., A.B., LL.B. 1923 Harvard Univ.; lawyer; B. 390 Main St., Worcester, Mass., H. 314 June St., Wor-

cester, Mass.

Parks, G. Hapgood, A.B.; instr.; mathematics and asst. athletic coach; B. Weaver H. S., Hartford, Conn., H. 47 State St., Wethersfield, Conn.

Seder, Maxwell B., A.B.; business; 11th & Market Sts., Philadelphia, Pa.

Segal, Harry, A.B.; business; 11 Spruce St., Worcester, Mass. Shea, Gerald F., A.B.; 485 Central Park W., N. Y. C. Thompson, Russell S., A.B.; metallurgist;

B. Washburn Wire Co., Inc., N. Y. C., H. 89-20 Parke Lane South, Woodhaven, N. Y.

#### AM.

Blanchard, Phyllis M., A.M., Ph.D. 1919, A.B. 1917 New Hampshire Coll.; psychologist, Philadelphia Child Guidance Clinic; B. 1711 Fitzwater St., Philadelphia, Pa., H. 4022 Spruce St., Philadelphia, Pa.

Brenan, Fred J., A.M.† Bullard, Ralph H., A.M.†

Dixon, Mrs. George E. (Mabel T. Murray), A.M., B.Ped. 1917 Univ. of Me.; Holliston, Mass.

Hickman, Clarence N., A.M., Ph.D. 1922, A.B. 1914 Winona Coll.; research physicist; B. Bell Telephone Lab., 463 West St., N. Y. C., H. 3536 79th St., Jackson Heights, L. I., N. Y.

Hill, Thomas B., A.M., B.H. 1917 Springfield Y. M. C. A., A.M. Adelaide Univ., So. Australia; B. Government Sch., Seaforth Boy's Home, Goswell, W. Australia.

Hugh, Yu Tinn, A.M., Ph.D. 1920, LL.B. 1915 Valparaiso Univ., A.B. 1917 Univ. of Me.; Eastern Univ., West City, Peiping, China.‡

Johnston, Earl N., A.M., Ph.B. 1909 West Lafayette Coll.; teacher, biology and chemistry, Williston Academy; 18 Main St., Easthampton, Mass.

Jones, Carl E., A.M.†

Kawamura, Tomehachi, A.M. Deceased. Murphy, Blanche L., A.M., B.Ped. 1917 Univ. of Me.; teacher, high school; 93 Fessenden St., Portland, Me. Murray, Mabel T. (See Dixon, Mrs. George

O'Neill, Anne W., A.M.; 2640 Benevenue Ave., Berkeley, Calif. Reed, Ellery F., A.M., Sc.B. 1914 Lenox Coll., Ph.D. 1922 Univ. of Wis.; director of the Helen S. Trounstone Foundation; B. 312 W. 9th St., Cincinnati, Ohio.

Schieber, Clara E., A.M., Ph.D. 1920, A.B. 1916 Ohio Univ.; prof. history, Ohio Northern Univ.; B. 310 South Gilbert St., Ada, Ohio, H. 406 E. Rensselaer St., Bucvrus, Ohio

Sprowis, Jesse W., A.M., Ph.D. 1919, Sc.B. 1910 Valparaiso Univ., Sc.B. in Ed. 1915 Univ. of Pittsburgh; prof. psychology; B. Univ. of Md., College Park, Md.

#### Ph.D.

Finley, Austin P., Ph.D., A.B. 1899 and

A.M. 1905 Ky. Univ., B.D. 1908 Harvard Univ.; salesman, Rep. Henry L. Doherty Co.; 17545 Madison Ave., Lakewood, Ohio.

Hancock, Thomas, Ph.D.† King, James, Ph.D.

Kurihara, Shinichi, Ph.D.†

McDougle, Ivan E., Ph.D.; Peters, Mrs. Iva L. (Mrs. Frederick), Ph.D. A.B. 1901 Syracuse Univ., A.M. 1916 Columbia Univ., dean and director personnel; B. Office of Dean of Women, Syracuse Univ., Syracuse, N. Y., H. 107 Waverly Ave., Syracuse, N. Y., Permanent H., Fishkill, N. Y.

#### CLASS OF 1919

#### A.B.

Barsam, R. G., A.B.; 3099 Broadway, N.

Brewster, Frank V. (formerly Uhrig, Frank V.), A.B.; salesman (specialties); 2445 Hillcrest Rd., Drexel Hill, Pa.

Brodsky, Michael E., A.B., M.D. 1925 Northwestern; physician; B. 881 Lafayette St., Bridgeport, Conn., H. 8 Beechwood Ave., Bridgeport, Conn.

Bugdenovich, William, A.B.; chemist; B. The Texas Company, Claymont, Del Doolittle, Clyde B., A.B.; Jr. H. S., Wor-

cester, Mass. Ekdahl, Adolph G., A.B., A.M. 1920, Ph.D. 1925 Ohio State Univ.; asso. prof. psychology and education; B. Univ. of N. H., Durham, N. H.

Ericson, Emil, A.B., A.M. 1922; 166 Lincoln St., Worcester, Mass.Grether, J. Richard, A.B.; real estate; 145

East 3rd St., Jacksonville, Fla. Harper, Russell D., A.B.; 2120 Spruce St.,

Philadelphia, Pa.

Hsu, Chang-hsu, A.B.; 147 Cavendish Rd.,

Valham, S. W., London, England.

Hunt, Horace A., A.B.; B. The Burdick
Corp., 664 No. Michigan Ave., Chicago,
Ill., H. 451 Maple Ave., Aurora, Ill.

Lange, Herbert F., A.B.; division traffic supt.; B. Mich. Bell Telephone Co., Saginaw, Mich., H. 1722 Court St., Saginaw, Mich.

Langford, C. Harold, A.B., Ph.D. 1924 Harvard Univ.; asso. prof. philosophy; B. Univ. of Mich., Ann Arbor, Mich.

Li, Chi, A.B., A.M. 1920; Nankai Coll.;

Tientsin, China.

Lindsey, Rupert W., A.B.; 6442 Harvard
Ave., Chicago, Ill.†

Ling, Ping, Ph.D., A.B. 1916 Leland Stanford Univ., A.M. 1917 Columbia Univ.; envoy extraordinary and minister plenipotentiary of the Republic of China to Cuba; Chinese Legation, Havana, Cuba.

Meleski, Harry J., A.B., LL.B. 1922 Boston Univ.; lawyer; B. 1011 Park Bldg., Worcester, Mass., H. 130 Endicott St., Worcester, Mass.

Nelson, Arthur J., A.B., A.M. 1922; teacher history; B. South H. S., Worcester, Mass., H. 116A Woodland St., Worcester,

Ringquist, Oscar E., A.B.; secretary; B. United Mutual Fire Insurance Co., 1033 Park Sq. Bldg., Boston, Mass., H. 30 Potomac St., W. Roxbury, Mass.

St. John, Abraham G., A.B.; sales correspondent; H. 7 Isabella St., Worcester,

Mass.

Shalloo, James D., A.B.; lawyer; 612 F. St., N.W., Washington, D. C.; Shrager, Arthur M., A.B., B.Ed. 1927; High

School, Closter, N. J.‡ Sullivan, John W., A.B.; chemist; The

Texas Co., Providence, R. I.

Tatham, Lewis C., A.B.; teacher English; B. Erskine Academy, S. China, Me. Towle, Laurence C., A.B.; statistical dept.; B. Rome Wire Co., Rome, N. Y., H. 616 N. Washington, St., Rome, N. Y. Tung, Shih, A.B.; Provincial Law School,

Nanking, Kiangsu, China.‡

# Uhrig, Frank V. (See Brewster, Frank V.). A.M.

Batchelor, Wilbur C., A.M., B.P.E. 1913 Y. M. C. A. Coll.; director recreation, City of Pittsburgh and Board of Education; B. 518 City County Bldg., Pittsburgh,

Bullard, Ida L. (See Pearson, Mrs. Charles

Pearson, Mrs. Charles W. (Bullard, Ida Louise), A.M., A.B. 1918 Mt. Holyoke Coll.; H. 91 Loraine St., Bridgeport,

Pieters, Maurice J., A.M., grad. 1912 Ecole Normale de Bruxelles; general secretary; B. Comité Interuniversitaire Sino-Belge, 50 Rue de Florence, Brussels, Belgium.

Smith, Laura G., A.M., B.Litt. 1910 Boston Univ.; teacher English, Worcester High School of Commerce, also clinician in Neurological Speech Clinic, Worcester City Hospital; H. 52 Richmond Ave., Worcester, Mass.

#### Ph.D.

Blanchard, Phyllis M., Ph.D.† Rebboli, Mrs. Mary D., Ph.D., A.B. 1903 and A.M. 1908 Wellesley Coll.; 288 Pleasant St., Worcester, Mass. Richmond, Winifred V., Ph.D.†

Sprowls, Jesse W., Ph.D.† Uppvall, Axel J., Ph.D., A.B. 1905 Colby Coll., A.M. 1907 Harvard Univ.; asst.

prof. Germanics, special field: Old Nordic and Modern Scandinavian Philology and Literature; B. College Hall, Box 9, Univ.

of Penn., Philadelphia, Pa., H. 216 S. 43rd St., Philadelphia, Pa.

Van Dusen, Albert P., Ph.D., A.B. 1905
Univ. of Rochester, B.D. 1909 Rochester
Theol. Semin.; 317 Kensington Rd.,

Syracuse, N. Y.

#### CLASS OF 1920

#### A.B.

Anderson, Edmund G. E., A.B., A.M. 1923; research associate, M. I. T.; 35 Winthrop

Rd., Brookline, Mass.‡

Ballard, Kenneth C., A.B., A.M. 1927 Harvard Univ.; B. Science Dept., Simmons Coll., Brookline, Mass., H. Falmouth, Mass.

Barr, William J., A.B., A.M. 1921; teacher Jr. H. S.; H. 225 Poplan Circuit, N. E.

Atlanta, Ga.

Baxter, William J., A.B.; 55 Prescott St.,

Worcester, Mass.

Bigelow, Karl W., A.B., Ph.D. 1929 Harvard Univ.; tutor and instr. economics and sociology, Harvard Univ. and Rad-cliffe Coll.; B. 12 Old Fogg Art Museum, Cambridge, Mass., H. 43 Museum St., Cambridge, Mass.

Blair, John E., A.B., Sc.M. 1921 and Ph.D. 1923 Brown Univ.; bacteriologist, Hospital for Joint Diseases; B. 1919 Madison Ave., N. Y. C., H. 1145 Abbott Blvd., Palisade, N. J.

Brooks, Chester E., A.B.; New York Tele-

phone and Telegraph Company, 608 Hort St., Westfield, N. J. Browne, Gordon W., A.B., A.M. 1921; biochemical research, Boston Univ. Sch. of Medicine; 108 Holden Green, Cambridge,

Chang, Tao H., A.B.; c/o Alumni Secretary, Tsing Hua Coll., Peiping, China. Chilk, Joseph, A.B.; 2318 Brooklyn Ave.,

Los Angeles, Calif.‡
Closson, Earle R., A.B., A.M. 1928 Lafayette Coll.; headmaster; B. Keystone Academy, Factoryville, Pa.

Cottle, William E., A.B., Ed.M. 1928 Harvard Univ.; principal; B. Jr.-Sr. H. S.,

S. Hamilton, Mass.

Fogarty, John J., Jr., A.B.; sales manager; Moreau Mailing; 43 Birch St., Worcester, Mass.

Foley, Raymond D., A.B.; H. 96 North

Ave., Natick, Mass.

Greenall, Walter G., Jr., A.B.; teacher; 920 72nd St., Brooklyn, N. Y.

Greenberg, Abraham, A.B., LL.B. Columbia Univ.; law dept., Title Guarantee & Trust Co.; B. 176 Broadway, N. Y. C.,

H. 2 Ivanhoe Rd., Worcester, Mass.

Goodnow, Donald W., A.B.; asst. prof.
physics and mathematics; B. Trinity

physics and mathematics; B. Trinity Coll., Hartford, Conn., H. 147 Fairfield Ave., Hartford, Conn.

Hodge, Benjamin E., A.B., M.D. 1924

Johns Hopkins Univ.; physician; B.

Johns Hopkins Hospital, Baltimore, Md.

Kalijarvi, T. W. V., A.B., A.M. 1923, LL.B.

1925 LaSalle Univ.; prof. political science; H. Faculty Row, Durham, N. H.

Kalin, Jacob T. A.B., M.D. 1924, Honyord

Kalin, Jacob I., A.B., M.D. 1924 Harvard Univ.; Riverside Hospital, North Brother

Island, N. Y. C.‡

Kendall, Raymond O., A.B.; principal; B. High School, Wethersfield, Conn., H. 1 Howard Ave., Wethersfield, Conn.

Kirkpatrick, Clifford, A.B., A.M. 1922, Ph.D. 1925 Univ. of Penn.; asst. prof.; B. Univ.

of Penn., Philadelphia, Pa.

Mathews, Mathew J., A.B.; sales executive; B. Woodbury & Co., Inc., Worcester, Mass., H. 9 Kimball St., Worcester,

Mass.

Michal, Aristotle D., A.B., A.M. 1921, Ph.D. 1924 Rice Inst.; asso. prof. mathematics, giving of grad. courses in mathematics and direction of math. research; B. Calif. Institute of Technology, Pasadena, Calif., H. 1067 San Pasqual St., Pasadena, Calif. Misakian, Haig (See Silvanie, Haig). Muir, George W., A.B. Died 1921.

Pomeroy, Howard E., A.B., B.D. 1923 Hartford Theol. Semin.; clergyman; B. Boylston Congregational Church, Jamaica Plain, Boston, Mass., H. 29 Pershing Rd., Jamaica Plain, Boston, Mass.

Roope, Percy M., A.B., A.M. 1924, Ph.D. 1927; asst. prof. physics; B. Clark Univ., Worcester, Mass., H. 36 Richards St., Worcester, Mass.

Schoonmaker, George B., A.B., LL.B. 1925 Harvard Univ.; asst. U. S. attorney; B. 11 East 44th St., N. Y. C., H. 25 Clare-mont Ave., N. Y. C.

Silvanie, Haig (Misakian, Haig), A.B.; Coll. of the City of New York, N. Y. C.‡

Simmerer, H. Eugene; A.B.; accountant and bookkeeper; H. 13 Gates St., Worcester, Mass.

Slate, Everett J., Jr., A.B.; 150 Orchard St., Watertown, Mass.

Snow, Arthur P., Jr., A.B.; master and asst. physical director; B. Fay Sch., Southborough, Mass., H. 6 Woodlawn Ave., Worcester, Mass.

Stitt, Albin, A.B.; chemist; 777 Neponset

St., Norwood, Mass.

Taylor, Wilfred L., A.B.; Southborough, Mass.

Uchiyama, G., A.B., A.M. 1921; teacher, State Coll.; Himeji Koko Gakko, Himeji, Japan.

Wahlstrom, Carl E., A.B., LL.B. 1923 Boston Univ.; attorney and asst. registrar Probate Court; B. Court House, Wor-cester, Mass., H. 11 Windham St., Worcester. Mass.

Whitcomb, G. Rowe, A.B.; engineer, New York Telephone Co.; B. 91-14 166th St., Jamaica, N. Y., H. 467 Brooklyn Blvd., Brightwaters, L. I., N. Y.

Willey, Malcolm Macdonald, A.B., A.M. 1921 and Ph.D. 1926 Columbia Univ.; prof. sociology; B. 108 Old Physics, Univ. of Minn., Minneapolis, Minn., H. 825 Delaware St., S. E., Minneapolis, Minn.

#### A.M.

Affleck, George B., A.M., A.B. 1897 Univ. of Manitoba, B.P.E. 1901 and M.P.E. 1906 Int. Y. M. C. A. Coll.; director undergraduate dept. physical education, Int. Y. M. C. A. Springfield, Mass.; H. 208 Dunmoreland St., Springfield, Mass. Alston, John H., A.M., A.B. 1917 Lincoln Univ.; head dept. education and asst. dean; B. Prairie View Coll., Prairie View, Texas

Texas.

Arnold, Mrs. William A., A.M., B.M.T. Southwestern Baptist Theol. Semin.; Seminary Hill, Tex.‡

Ashford, Moselle, A.M., A.B. 1919 Fla. State Coll. for Women; teacher, psychology, State Normal Sch.; 125 Mildedge St., Athens, Ga.‡

Bates, Marjory (See Pratt. Mrs. C. C.).

Burke, Winthrop M., A.M.† Callis, Conrad C., A.M.†

Couyumdjopoulos, Eustave (See Cuy,

Eustace).

Crafts, Leland W., A.M., Sc.B. 1915 N. H. Coll., Ph.D. 1927 Columbia Univ.; teacher psychology; B. Washington Sq. Coll., N. Y. Univ., N. Y. C., H. 71 W. 12th St., N. Y. C.

Cuy, Eustace (formerly Couyumdjopoulos, Eustave), A.M. Died 1925.

Ekdahl, Adolph G., A.M.†

Frazier, E. Franklin, A.M., A.B. 1916 Harvard Univ.; director, Atlantic Sch. of Social Work; 109 East 57th St., Chicago, I11.

Fryer, Mrs. H. Douglas (Pruette, Louise L.), A.M.; 151 West 10th St., N. Y. C.

Hanson, Dorothy, A.M., A.B. 1919 N. H. State Coll.; teacher, high school; 36 Newton Ave., Westerly, R. I.

Hewitt, Roy R., A.M., Ph.B. 1909 Williamette Univ., LL.B. 1909 Williamette Coll. of Law; asst. prof. political science; B. Oreg. Agricultural Coll., Salem, Oreg., H.

1329 Chemeketa St., Salem, Oreg. Hurd, Charles B., A.M., Ph.D. 1921; asso. prof. phys. chemistry; B. Union Coll., Schenectady, N. Y., H. 134 Rankin Ave., Schenectady, N. Y.

Kurtz, Herman F., A.M., Ph.D. 1922, A.B. 1918 Kalamazoo Coll.; Bessie Tift Coll.,

Forsuth, Ga. Li, Chi, A.M.†

Lucasse, Walter W., A.M., Ph.D. 1921, A.B. 1917 Kalamazoo Coll.; asst. prof. chemistry; B. Harrison Laboratory, Univ. of Penn., Philadelphia, Pa., H. 4022 Spruce St., Philadelphia, Pa.

Modder, Montagu F., A.M., B.H. 1916, Springfield Y. M. C. A.; asst. prof. Eng-lish dept.; B. W. Va. Univ., Morgantown,

W. Va.

Pettit, Effie D., A.M., A.B. 1909 and A.M. 1912 Fla. State Coll. for Women; teacher; H. 644 Linwood Ave., Atlanta, Ga.,

er; H. 644 Linwood Ave., Atlanta, Ga., Permanent H. Waldo, Fla.

Poole, Charles P., A.M., A.B. 1917 David Lipscomb Coll., A.M. 1925 Harvard Univ.; head dept. psychology; B. State Teachers College, Murray, Ky.

Pratt, Mrs. C. C. (Bates, Marjory), A.M., Ph.D. 1922, A.B. 1917 Smith Coll.; H. 114 Foster St., Cambridge, Mass.

Pruette, Louise L. (See Fryer, Mrs. H. Douglas).

Douglas).

Rice, Murray J., A.M., Sc.B. 1919 Kalamazoo Coll., Ph.D. 1926 Univ. of Ia.; prof. chemistry; N. Y. State Sch. of Clayworking and Ceramies, Alfred Univ., Alfred, N. Y.

Staley, Seward C., A.M., B.P.E. 1917 Spring-field Y. M. C. A.; Univ. of Ill., Urbana,

Zinn, Earl F., A.M., B.H. 1916 Springfield Y. M. C. A.; director—Committee for the Study of Personality; B. 119 W. 57th St., N. Y. C., H. 106 23rd St., Jack-son Heights, N. Y.

#### Ph.D.

Benns, Frank L., Ph.D., A.B. 1914 and A.M. 1916 Syracuse Univ.; asso. prof. history, Ind. Univ., Bloomington, Ind.; Gordon Rd., Bloomington, Ind. Bird, Charles, Ph.D.;

Brown, Thomas I., Ph.D.;

Chiu, Chung Yen, Ph.D.;
Field, John W., Ph.D., A.B. 1909 Union
Coll., A.M. 1911 Univ. of Nebr., M.D.
1929 Univ. of Kans.; practising medicine and clinical psychology; B. 36 W. 59th St., Kansas City, Mo. Freeland, George E., Ph.D.†

Hugh, Yu Tinn, Ph.D. Parker, Henry C., Ph.D.; Schieber, Clara E., Ph.D.† Sumner, Francis C., Ph.D.†

White, Elizabeth B., Ph.D., A.B. 1904 Cornell Univ., A.M. 1917 Univ. of Wis.; dean of women, prof. history; B. Ursinus Coll., Collegeville, Pa.

#### CLASS OF 1921

#### A.B.

Battles, Stanley C., A.B.; 9 Early St.,

Medford, Mass.

Bergquist, Albert G., A.B., LL.B. 1924 Boston Univ.; lawyer; B. Rm. 64, 311 Main, St., Worcester, Mass., H. 46A Elm St.,

St., Worcester, Mass., H. 40A Elm St., Worcester, Mass.

Blanchard, Kenneth C., A.B.; Bellevue Medical Coll., N. Y. C.

Blom, E. William U., A.B.; 23 Cambridge St., E. Orange, N. J.‡

Boylan, George E., A.B., A.M. 1922; B. Alexander Hamilton H. S., Brooklyn, N. V. H. 1922 Posific St. Brooklyn, N. V. H. 1922 Posific St. Brooklyn, N. V. Y., H. 1233 Pacific St., Brooklyn, N. Y.

Clark, Edwin R., A.B., A.M. 1923 Univ. of Ill.; teacher; B. Hobbs Jr. H. S., W. Medford, Mass., H. 31 Mystic St., W. Medford, Mass.

Corash, Harry, A.B.; "The News," 25 Park

Place, N. Y. C. Crock, Israel Z., A.B., A.M. 1922; plant engineer; B. Weston Electric Co., Boston, Mass., H. 38 Fox St., Worcester, Mass.

Cummings, Randall F., A.B.; dist. supt. of towns of Alna, Dresden, Edgecomb, Pittston, Wiscasset; B. Wiscasset, Me. Davis, Walter N., A.B.; 596 Park Ave.,

Worcester, Mass.

Eaton, Stacey E., A.B., A.M. 1927 Bates Coll.; head French dept.; B. Blair Academy, Blairstown, N. J., H. 88 Pur-chase St., Newburyport, Mass. Fish, Abraham, A.B.; 92 Providence St.,

Worcester, Mass.

French, Albert H., A.B.; c/o J. S. French, New Hampton Literary Institution, New Hampton, N. H.

Gesner, Kenneth C., A.B., S.T.B. 1924 Har-yard Univ.; Unitarian clergyman; 410

Lexington St., Waltham, Mass.

Gould, J. Sidney, A.B., A.M. 1922; Ph.D. 1929 Robt. Brooking's Grad. Sch.; asst. prof. and acting head of the dept. of economics; B. Univ. of Del., Newark, Del.

Healey, John H., A.B.; teacher; B. Harvey Sch., Hawthorne, N. Y., H. 54 Squier

St., Palmer, Mass.

Higginson, William J., A.B.; editor; Easthampton News; 257 Upland Rd., Cambridge, Mass.‡

Hodgkinson, Harold, A.B.; head of science

dept.; B. Blake Sch., 22nd and Colfax Sq., Minneapolis, Minn., H. 4957 Upton Ave., S. Minneapolis, Minn.

Hubbard, F. Edgar, A.B., A.M. 1924 Univ. of Ill.; teacher science; B. Lincoln Jr. H. S., S. Medford, Mass., H. 308 Boston Ave., Medford, Mass. Johnson, Ernest W., A.B., A.M. 1922, Ph.D.

1925 Brown Univ.; chemist; Anglo Chilean Cons. Nitrate Corp., Casilla 17, Tocopilla, Chile.

Kelley, Harry N., A.B., M.D. 1925 Harvard Univ.; physician; B. 847 Main St., Worcester, Mass., H. 18 June St., Wor-

cester, Mass.

Kilpatrick, Richard H., A.B.; (lost). Knight, Kenneth H., A.B., A.M. 1922; chemist; B. Graton and Knight Co., 356 Franklin St., Worcester, Mass., H. 1 Oxford Pl., Worcester, Mass.

Kunin, Joseph, A.B., A.M. 1922; teacher chemistry and physics; B. High School, 51 Walnut St., Naugatuck, Conn., H. 40

Salem St., Worcester, Mass. Landry, Paul E, A.B., A.M. 1922, M.B.A. 1924 Harvard Univ.; asst. sales manager; B. Cadillac Auto Co. of Boston, Boston, Mass., H. 43 Carver Rd., Watertown, Mass.

Leavitt, Ashley L., A.B.; asst. merchandise manager; 196 Clinton Ave., Brooklyn,

N. Y.

Leavitt, J. Preston H., A.B.; grad. 1922 Babson Institute; sales manager; B. The J. L. Morrison Co., Niagara Falls, N. Y., H. The Royalton, 23rd and Walnut St., Philadelphia, Pa.

Lewis, Charles B., A.B.; salesman; 11

Duston St., Worcester, Mass.

MacDonald, Malcolm K., A.B., A.M. 1922; plant accounting dept.; B. Standard Underground Cable Co., Perth Amboy, N. J., H. 182 Jefferson St., Perth Amboy, N. J.

Martinson, John W., A.B.; dean of boys; B. Bassick Jr. H. S., Bridgeport, Conn.,

H. 23 Plum St., Fairfield, Conn.

Meenes, Max, A.B., Ph.D. 1926, A.M. 1924 Princeton Univ.; asst. prof. psychology; B. Lehigh Univ., Bethlehem, Pa., H. 84 W. Market St., Bethlehem, Pa.

Morrison, Arthur B., A.B., A.M. 1924; chemist; B. The Texas Co., Claymont,

Del.

Morrison, Joshua, A.B., LL.B. Harvard Univ.; banking; B. 54 Wall St., N. Y. C., H. 4535 Parsons Blvd., Flushing, N. Y. Myers, Roscoe W., A.B., M.D. 1925 Har-

vard Univ.; ophthalmologist at Worcester City Hospital, consulting ophthalmologist to Worcester State Hospital; B. 36 Pleasant St., Worcester, Mass., H. 46 Elm St., Worcester, Mass. McGovern, John G., A.B., LL.B. 1924 Yale

Univ.; lawyer; B. 60 Broadway, N. Y. C. Noreen, Anton H. R., A.B.; chemist; B.

Commonwealth Edison Co., Testing Dept., 2233 S. Throop St., Chicago, Ill., H. 7200 S. Princeton Ave., Chicago, Ill.

Olin, Paul A., A.B.; teacher Spanish; B. High School of Commerce, Worcester, Mass., H. 18 Hillcroft Ave., Worcester,

Prue, Milton F., A.B.; instr. chemistry; B. State Coll. for Teachers, Albany, N. H. 7 Borthwick Ave., Delmar, N. Y.

Rodgers, Stanley E., Jr., A.B., A.M. 1923; instr. physics; B. New York Univ., Washington Square Coll., N. Y. C.

Russell, Edward D., A.B., A.M. 1922; H. 4 Hudson St., Worcester, Mass.

Ryer, William H., A.B., A.M., 1922; High School, Conway, N. H.

Seder, Saul A., A.B., LL.B. 1925 Boston Univ.; lawyer; B. 390 Main St., Wor-cester, Mass., H. 37 Somerset St., Wor-cester, Mass.

Shannon, Luke E., A.B., A.M. 1922; teacher history; Highland Park Jr. Coll., Highland Park, Mich.

Shapiro, Harry I., A.B., LL.B. 1924 Yale Univ.; lawyer; 1022. Slater Bldg., Worcester, Mass.

Signor, Henry L., A.B.; credit manager; B. 166 Southbridge St., Worcester, Mass., H. 114 Woodland St., Worcester, Mass.

Smith, David H., A.B.; teacher; B. Fay Sch., Southborough, Mass.

Smith, Harold M., A.B., A.M. 1922; petrochemist; B. U. S. Bureau of Mines, Bartlesville, Okla., H. 1356 Jennings Ave., Bartlesville, Okla.

Thomajan, Zareh G., A.B.; business; 111

Mountfort St., Boston, Mass.

Tinker, Miles A., A.B., A.M. 1922, Ph.D. 1927 Stanford Univ.; asst. prof. psychology; B. Univ. of Minn., Minneapolis, Minn., H. 1807 Franklin Ave., S. E., Minneapolis, Minn.

Toombs, Herbert R., A.B., M.D. 1926 Tufts Coll.; 36 N. Elm St., Westfield, Mass.

Towne, Charles C., A.B., A.M. 1922; research chemist; B. The Texas Co., Bayonne, N. J., H. 112 Westfield Ave., Elizabeth, N. J.

Weinberg, Max, A.B.; 970 Hampden St.,

Holyoke, Mass.

Wilder, S. Alden, A.B.; ticker service; B. Western Union Telegraph Co., Providence, R. I., H. 41 Fruit Hill Ave., Providence, R. I.

Wood, Walter D., A.B., A.M. 1922; Mt. Auburn St. Cambridge, Mass.‡

Wuorinen, John H., A.B., A.M. 1922; instr. history; B. 509 Fayerweather Hall, Co-lumbia Univ., N. Y. C., H. 21 Claremont Ave., N. Y. C.

#### A.M.

Barr, William J., A.M. Browne, Gordon W., A.M.†

Cooper, Robert U., A.M., B.P.E 1920 Int. Y. M. C. A., M.D. 1925 Univ. of Mich.; physician; H. 2210 Nicholas Ave., S. E., Washington, D. C.

Dunn. Gustus A., A.M., B.D. 1927 Southern Methodist Univ.; clergyman; H. 823 W.

10th St., Dallas, Tex

Farnsworth, Albert, A.M., Ph.D. 1927, Ph.B. 1910 Brown Univ.; teacher, Worcester Academy; H. 31 Chesterfield Rd., Wor cester, Mass.

Heiser, Harold W., A.M., Sc.B. 1920 Kalamazoo Coll.; research chemist; B. Aluminum Ore Co., E. St. Louis, Ill., H. 432 N. 24th St., E. St. Louis, Ill.

Himmer, William C., A.M. Deceased. Keeneyside, Hugh L., A.M., Ph.D. 1923, A.B. 1920 Univ. of British Columbia; first secretary; Canadian Legation, Tokyo, Japan.

Leonard, Clinton S., A.M., B.H. 1920 Springfield Coll.; supervisor, physical education, Public schools, Scarsdale, N. Y.; B. Board of Education, Scarsdale, N. Y., H. 25 Highland Ave., White Plains, N. Y.

Michal, Aristotle D., AM. Nelson, Ernest W., A.M.†

Perkins, Ernest R., A.M., Ph.D. 1930, A.B. 1917 Wesleyan Univ.; asso. prof. his-tory; B. Norwich Univ., Northfield, Vt.

Ross, Burgess B., A.M., A.M. 1929 Columbia Univ.; teacher history; B. Sr. H. S., New Rochelle, N. Y., H. 37 Otsego Ave., New Rochelle, N. Y.

Ross, Mrs. Burgess B., A.M., A.M. 1929 Columbia Univ.; teacher, economics and forestry; B. Sr. H. S., New Rochelle, N. Y., H. 37 Otsego Ave., New Rochelle, N. Y.

Schub, Pincus, A.M., grad. Hebrew Teachers Coll. in Jerusalem, Ph.D. 1928 Dropsie Coll.; teacher; B. Gratz Coll., Philadelphia, Pa., H. 207 E. Broadway, N.

Schwenning, Gustav T., A.M., Ph.D. 1925, B.H. 1920 Springfield Coll.; asso. prof. business administration; B. Univ. of N. C., Chapel Hill, N. C., H. 108 University Drive, Chapel Hill, N. C.

Stowe, Allen B., A.M., Ph.D. 1923, A.B. 1920 Kalamazoo Coll.; prof. physical chemistry; B. Kalamazoo Coll., Kala-

mazoo, Mich.

Tanaka, Isawo, A.M., A.B. 1920 Trinity
Coll.; teacher, Hiroshima Girls' College;
137 Noboricho, Hiroshima, Japan.

Uchiyama, G., A.M.†

Wheeler, A. Harry, A.M., Sc.B. 1894 W. P. I.; teacher mathematics, North H. S., Worcester, Mass., and lecturer mathematics, Wellesley Coll., Wellesley, Mass.;

H. 16 Bellevue St., Worcester, Mass. Williams, Isadore C., A.M., A.B. 1920 Howard Univ.; 145 West 131st St., N. Y. C.‡

#### Ph.D.

Hurd, Charles B., Ph.D. Lucasse, Walter W., Ph.D.; Pond, Samuel E., Ph.D.† Pratt, Carroll C., Ph.D.;

Yokoyama, Matsusaburo, Ph.D., A.B. 1917 Colo., Col., A.M. 1918 Harvard Univ.; asso. prof. psychology and acting director of psychological laboratory; B. Keio Univ., Tokyo, Japan, H. 596 Isogo, Yokohama, Japan.

Zeitfuchs, Edward, Ph.D. Sc.B. 1912 Univ. of Calif., Sc.M. 1918 M. I. T.; chemical engineer; B. Standard Oil Co. of Calif., Richmond, Calif., H. 2928 Florence St.,

Berkeley, Calif.

## CLASS OF 1922

# A.B.

Alquist, Francis N., A.B.; inst., Purdue

Univ., Lafayette, Ind.

Baker, George E., A.B., A.M. 1925 Harvard Univ.; asst. prof. English; B. Clark Univ., Worcester, Mass., H. 2181 Washington St., West Newton, Mass.

Bates, James E., A.B., Ed.M. 1930 Harvard Univ.; teacher; B. High School, East Providence, R. I., H. 19 Nisbet St., Providence, R. I.

Benjamin, Mendall, A.B.; Worcester Hardware Co.; H. 26 Courtland St., Wor-

cester, Mass.
Bixby, F. Lovell, A.B., Ph.D. 1926 Cornell Univ.; dept. of psychology, Rice Institute; H. Hotel Warwick, Houston, Tex.

Campbell, Elmer I., A.B.; advertising dept., Vacuum Oil Co.; B. 61 Broadway, N. Y. C., H. 195 West 10th St., N. Y. C.

Chang, C. William, A.B., M.D. 1927 Columbia Univ.; Bellevue Hospital, N. Y.

Chaoush, Angelos G., A.B.; Armstrong Cork Co., New Brunswick, N. J.

Damon, Curtis, A.B.; dept. head, Printing Division; B. Dennison Mfg. Co., Framingham, Mass., H. 5 Concord Terrace, Eremingham Mass. Framingham, Mass.

Davis, George T., (Tashamka), A.B., A.M. 1922; 119 Pendleton St., New Haven, Conn.

Egan, Thomas K., Jr., A.B., LL.B. 1925 Yale Univ.; lawyer; 228 Henry St., Brooklyn, N. Y.

Everett, Kenneth C., A.B.; textile chemist; B. U. S. Finishing Co., Prospect St., Pawtucket, R. I., H. 90 Englewood Ave., Pawtucket, R. I.

Ford, John V., A.B., A.M. 1923; asst. prof. economics; B. Norwich Univ., North-

field, Vt. Foster, Lawrence S., A.B., A.M. 1923, Ph.D. Foster, Lawrence S., A.B., A.M. 1925, Fh.D. 1926 Brown Univ.; asst. prof. chemistry; B. Brown Univ., Providence, R. I., H. 13 Brown St., Providence, R. I. Fraser, A. D. Ross, A.B.; statis. and asst. production manager, Rome Wire Co.; 1005 N. George St., Rome, N. Y. Hard, Ernest, A.B.; Bantam, Conn. Howe George F. A.R. A.M. 1924: teacher

Howe, George F., A.B., A.M. 1924; teacher geography; B. State Normal Sch., New Britain, Conn., H. 86 Park Dr., New Britain, Conn.

Humes, Warren M., A.B.; teacher; H. 19

Locust St., Manchester, Conn.

Ivok, Leo, A.B.; principal; B. Woodward Sch., N. Oxford, Mass., H. 23 Charlton St., Worcester, Mass.

Krikorian, Armen K., A.B.; student, Yale Univ. Law School; 477 Orchard St., New Haven, Conn.

LaFleur, Albert, A.B., A.M. 1923, Ph.D. 1929; prof. geography and geology, head dept. science; B. Ball State Teachers Coll., Muncie, Ind.

Landry, Philip R., A.B., A.M. 1922, M.B.A. 1924 Harvard Univ.; B. Packard Motor Car Co., Boston, Mass., H. 43 Carver Rd., Watertown, Mass.

Levine, Edward H., A.B., LL.B. 1925 Yale Univ.; attorney; B. 26 Court St., Brooklyn, N. Y., H. 1581 President St., Brooklyn, N. Y.

Loomis, Theodore R., A.B., traveling auditor; B. Conn. Mutual Life Insurance. 140 Garden St., Hartford, Conn., H. 126 Tremont St., Hartford, Conn.

Metcalf, Charles A., A.B., D.O. 1926 Mass. Coll. of Osteopathy; physician; 44 Cen-

tral St., Bangor, Me.

Millman, Max, A.B., M.B. 1925 and M.D. 1926 Boston Univ.; physician; B. 115 State St., Springfield, Mass., H. 57 Ban-croft St., Springfield, Mass.

Moran, John A., A.B.; 8 View St., Worcester, Mass.

Nadler, Aaron, A.B.; 4 Franconia St., Worcester, Mass.‡

Parkes, Alanson W., A.B., A.M. 1925 La-

fayette, A.M. 1929 Harvard graduate student physics dept., Harvard Univ.; H. Sandwich, Mass. Partridge, Allan B., A.B., A.M. 1923; asst.

prof. history; B. Univ. of N. H., Durham, N. H.

Partridge, Roland E., A.B.; asst. prof. sociology; B. Univ. of N. H., Durham, N.

Pelletier, Valmore A., A.B., M.D. 1926 Harvard Univ.; asst. supt. Pondville State Cancer Hospital; B. Pondville Hospital at Norfolk, Wrentham, Mass., H. 414 Center St., Brockton, Mass.

Pratt, Stewart M., A.B.; job and wage analyst, Brooklyn Edison Co.; 459 E.

22nd St., Brooklyn, N. Y.

Rabinov, Isaac (Rabinovitz, Isaac), A.B., Sc.M. 1924 Univ. of Chicago; 1726 June-

way Ter., Chicago, Ill. Rabinovitz, Isaac (See Rabinov, Isaac). Riani, Alfred J., A.B.; teacher; B. Marlboro H. S., Marlboro, Mass., H. 51 Francis St., Marlboro, Mass.

Rouse, Charles E., A.B.; instr. English; Williston Academy, Easthampton, Mass.

Rowland, Robert J., A.B.; teacher physics; B. Hartford H. S., Hartford, Conn., H. 341 Main St., Glastonbury, Conn.

Schultheiss, Robert C., A.B.; 6 Sheffield

Ave., New Haven, Conn.

Sommerman, Henry H., A.B.; principal; High School, Warren, Mass

Small, Sherwood, A.B.; c/o F. H. Reynolds, 27th St., Whitestone, N. Y.

Stonequist, Everett, A.B.; fellow in so-ciology; B. Univ. of Chicago, Chicago, Ill., H. 6017 Kimbark Ave., Chicago, Ill.

Sturtevant, Ralph E., A.B.; history and English teacher; 233 High St., Greenfield, Mass.

Tashamka, George T. (See Davis, George

Thayer, Dwight H., A.B.; sales dept., B. Rome Wire Co., Div. Rome, N. Y., I 1003 North Madison St., Rome, N. Y.

Thompson, George R., A.B.; 173 Eldridge

St., Auburn, R. I.

Warmbier, Edward J., A.B., A.M. 1923 Carnegie Tech.; 209 9th St., Pittsburgh,

White, Vinton E., A.B., inst. bacteriology; B. Conn. Agricultural Coll., Storrs, Conn. Williams, Carl A., A.B.; 1320 Chicago

Ave., Evanston, Ill.

Winn, Warren B., A.B.; agent, Standard Oil Co.; 253 Prospect St., Brockton, Mass.

Yung, Chi-Hsuing, A.B; c/o Alumni Seccretary, Tsing Hua Coll., Peiping, China.‡

#### A.M.

Andrew, Paul E., A.M. Sc.B. 1911 Drury, Ed.B. 1918 Mo. State Teachers Coll.; dist. supt. of schools; B. Union H. S., Clovis, Calif., H. 909 E. 4th St., Clovis, Calif.

Banks, Dwight S., A.M., B.R.E. 1921 Boston Univ.; principal, Theological Sch. and Educational Missionary; A. A. Mis-

sion, Velacheri, Madras, India.

sion, Velacheri, Madras, India.

Boylan, George E., A.M.†

Burnham, Guy H., A.M.†

Cheney, Ralph L., AM., Sc.B. 1898 Oberlin

Coll., B.H. 1907 and M.H. 1916 Int. Y.

M. C. A.; general secretary, Y. M. C. A.,
instr. Yale Divinity Sch.; B. 52 Howe

St., New Haven, Conn., H. 500 Fountain New Haven, Conn.

Conklin, Robert J., A.M., B.H. 1921 Spring-field Y. M. C. A.; instr. English; Ban-croft Hall, Columbia Univ., N. Y. C.‡ Crock, Israel Z., A.M.† Davis, George T., A.M.†

Des Autels, George F., A.M., Ph.D. 1924 Sc.B. 1921 Kalamazoo Coll.; R. F. D. 12, Kalamazoo, Mich.

Dickinson, Charles A., A.M., Ph.D. 1925, B. P. E. 1910 Y. M. C. A.; prof. psy-chology and head dept.; B. Univ. of Me., Orono, Me., H. Bennoch Rd., Orono, Me.

Donnelly, Everett C., AM., A.B. 1921 Holy Cross Coll.; teacher; 70 Plantation St., Worcester, Mass.

Ericson, Emil, A.M.†

Flohr, Earl W., A.M., A.B. 1916 Bridge-water Coll.; teacher in Mission Sch.; Garidka, na Jos 2, Numan, Nigeria, W. Africa.

Gay, Harold J., A.M., A.B. 1919 Harvard Univ.; asst. prof. mathematics; B. Worcester Polytechnic Institute, Worcester, Mass., H. 7 Belvidere Ave., Worcester, Mass.

Gould, J. Sidney, A.M.†

Greer, Willard N., A.M., Ph.D. 1924, Sc.B. 1921 Kalamazoo; research chemist; 76

E. Logan St., Germantown, Pa.

House, Howard H., A.M., B.P.E. 1917

Springfield Y. M. C. A.; asso. prof. physical education; B. Wash. State Coll., Physical Education, Pullman, Wash., H. 904 Colorado St., Pullman, Wash.

Howe, Mrs. George E., (Marvel, Louise), A.M.; 86 Park Dr., New Britain, Conn.

Johnson, Ernest W., A.M.†
Jones, Sarah E., A.M., A.B. 1919 Bates
Coll.; teacher; 188 First Ave., West Haven, Conn.

Kirkpatrick, Clifford, A.M.+ Knight, Kenneth H., A.M.† Kunin, Joseph, A.M.†

Landry, Paul E., A.M.†

Landry, Philip R., A.M.;

Lindley, Charles A., A.M., A.B. 1921 Ind. Univ.; prof. history; B. Fairmont State Normal, Fairmont, W. Va., B. 402 Belleview Ave., Fairmont, W. Va. MacDonald, Malcolm K., A.M.†

MacLeod, Alexander B., A.M.; minister of First Congregational Church; H. 269

Mill St., Poughkeepsie, N. Y.

Maher, Ellen A., A.M., grad. 1912 Worcester State Normal Sch., Psychologist's Certificate 1926 New York State; teacher and lecturer on child psychology, Univ. Extension Series; H. 741 Pleasant St., Worcester, Mass.

Marvel, Louise (See Howe, Mrs. George

öller, Elisabeth F., A.M., A.B. 1921 Goucher Coll. Ph.D. 1924 Cornell; asso. Möller, in psychology; B. Univ. of Ill., Urbana,

Nelson, Arthur J., A.M.†

O'Leary, John B., A.M., A.B. 1915 Holy Cross Coll.; teacher; B. High School of Commerce, Worcester, Mass., H. 57 Commerce, Worcester, Mass., Channing St., Worcester, Mass.

Peardon, Thomas P., A.M., A.B. 1921 Univ. of British Columbia; teacher history; B. Barnard Coll., Columbia Univ., N.

Y. C.

Phinney, William I., A.M., Sc.B. 1920 Dartmouth Coll.; inst. mathematics; B. W. P. I., Worcester, Mass., H. 3 Circuit

Ave., Worcester, Mass.
Porter, Charles S., A.M., A.B. 1919 Amherst Coll.; asso. prof. mathematics and secretary of Committee on Student Activities; B. Amherst Coll., Amherst, Mass., H. 9 Hitchcock Rd., Amherst,

Rizzolo, Attilio M., A.M., B.H. 1921 Spring-field Coll.; 264 Garside St., Newark, N. J.

Russell, Edward D., A.M.† Ryer, William H., A.M.†

Saunders, Margaret J., A.M., B.Pd. 1921 Horeford Sch. of Rel. Pedagogy; 310 Chestnut Hill, Needham, Mass.‡

Shannon, Luke E., A.M.† Smith, Harold M., A.M.†

Smith, Mary A., A.M., A.B. 1917 Smith; teacher history and Latin in girls' school, doing work with college preparatory classes; B. Rogers Hall, Lowell, Mass., H. 142 Burncoat St., Worcester, Mass. Tinker, Miles A., A.M.†

Towne, Charles C., A.M.† Wood, Walter D., A.M.† Wuorinen, John H., A.M.†

Ph.D.

Allen, Mildred, Ph.D.†

Callis, Conrad C., Ph.D.†

Clune, Mary C., Ph.D., Sc.B. 1912 Columbia Univ.: A.M. 1917 Smith Coll.; history and geography teacher, head dept. social studies; B. Tech H. S. Springfield, Mass., H. 396 Union St., Springfield, Mass.

Coe, George A., Ph.D.†

Cutler, Frederick Morse, Ph.D., A.B. 1895 Columbia Univ., B.D. 1898 Union Theol. Semin.; prof. sociology; B. Mass. Agricultural Coll., Amherst, Mass., H. 102 Butterfield Terrace, Amherst, Mass. Halverson, Henry, Ph.D., Ph.B. 1916 Univ.

of Wis., A.M. 1919 Univ. of Ia.; res. asso. in exp. psychology, Yale Univ.; 52 Hill-house Ave., New Haven, Conn. Hickman, Clarence N., Ph.D.†

Kurtz, Herman F., Ph.D.†
Pratt, Mrs. C. C. (Bates, Marjory) Ph.D.† CLASS OF 1923

#### A.B.

Armitage, Harold B., A.B.; business; B. Houghton Mifflin Co., Boston, Mass.

Babcock, Royal R., A.B.; 222 S. Poinsettia St., W. Palm Beach, Fla.‡ Bliss, Lawrence E., A.B.; inst. English, Monson Academy, Monson, Mass. Brind, Abraham, A.B.; 1695 Topping Ave.,

Bronx, N. Y.

Buxton, Kenneth S., A.B., A.M. 1924; instr. chemistry; 17 Seabury Hall, Trinity Coll., Hartford, Conn.

Clark, Wendell J., A.B., S.T.B. 1926 Boston Univ.; minister; Stepney, Conn.
Ferguson, Arthur W., A.B.; instr. English, senior master; B. Lawrence Academy,

Groton, Mass

Finkelstein, Herman, A.B., LL.B. 1927 Yale Univ.; lawyer; B. 1451 Broadway, N. Y. C., H. c/o Mrs. H. Finke, 1 Sherwood Ter., Yonkers, N. Y.

Foley, Gardner P. H., A.B., A.M. 1926; instr. English; Univ. of Md., Baltimore,

Fowler, Frank H., A.B.; c/o C. I. M. A., 251 Foubourg St. Martin, Paris, France. Fox, Winston E., A.B.; teacher, Jr. H. S.; 14½ Dix St., Worcester, Mass. Franz, Albin E., A.B.; supt. buildings;

Mt. Hermon Sch., Mount Hermon, Mass.

Goldberg, Joseph, A.B., LL.B. 1927 Boston Univ.; lawyer; B. 546-8 Slater Bldg., Worcester, Mass., H. 18 Wabash Ave., Worcester, Mass.

Golden, Sherman E., A.B., M.D. 1927 Harvard Univ.; physician, general practice; B. 288 Cabot St., Beverly, Mass., H. 26 Essex St., Beverly, Mass. Grattan, Clinton H., A.B.; no permanent

address.

Groop, Waldemar H., A.B.; insurance; 40 Broad St., c/o Gilmour Rothery Co., Boston, Mass.

Gunter, William, A.B.; clergyman; 105 Springfield St., Chicopee Falls, Mass. Heffernan, Daniel J., A.B.; teacher, gen-

eral science, chemistry and physics, also coach, basketball and baseball; B. Derby H. S., Derby, Conn., H. 45 Tenth St., Derby, Conn.

Higgins, Donald E., A.B., A.M. 1924; student, Harvard Med.; H. 26 Garden St.,

Boston, Mass.

Higgins, Roger W., A.B.; instr. English; B. Brown Univ., Providence, R. I.

Holmes, Richard M., A.B.; special investigator, doing management engineering and efficiency work; B. Retail Credit Co., Atlanta, Ga., H. 633 Moreland Ave., N. E., Atlanta, Ga.

Howard, Palmer P., A.B., A.M. 1927; teacher; B. Vocational H. S., New Brit-ain, Conn., H. Waterford, Conn.

Jacobson, Frank J., A.B., M.D. 1928 Jefferson Medical Coll.; physician; B. City Hospital, Welfare Island, N. Y. C., H. 367 Main St., East Greenwich, R. I. Keefe, William T., A.B.; Texas Co., Provi-

dence, R. I.†

Knowlton, Edwin E., A.B.; Mansfield, Conn.

Levenson, Benjamin, A.B.; 106 Salem St.,

Worcester, Mass.

Long, Edward J., A.B.; teacher; B. Bronx Industrial H. S. for Girls, College Ave. and 145th St., N. Y. C., H. 3647 Broadway, N. Y. C. Lyon, Leroy A., A.B.; clergyman, Meth-

odist Episcopal Church; H. 7 Green St.,

Monson, Mass.

Mansur, Eric W., A.B.; asst. principal, H. S.; 40 Montclair Rd., Haverhill, Mass.

Nadler, J. Ernest, A.B., A.M. 1925 Johns Hopkins Univ; 3800 Locust St., Phila-delphia, Pa

Neal, Arthur M., A.B., A.M. 1924, Ph.D. 1927 Brown Univ.; research chemist, E. I. DuPont de Nemours Co.; B. Jackson Laboratory, P. O. Box 525, Wilmington, Del., H. 433 Goddes St., Wilmington, Del.

Nichols, Corydon R., A.B.; Norton Co.; P. O. Box 94, Grafton, Mass.

O'Brien, John F., A.B., A.M. 1924 Univ. of Ia., LL.B. 1927 Harvard Univ.; asst. counsel, office of the Legislative Counsel, House of Representatives, U. S.; B. 197 House Office Bldg., Washington, D. C.

Perman, Samuel, A.B., LL.B. 1926 Harvard Univ.; lawyer; H. 74 Providence

St., Worcester, Mass.

Smith, Sheldon B., A.B., LL.B. 1926 Yale Univ.; lawyer; B. 55 Wall St., N. Y. C., H. 1228 E. 35th St., Brooklyn, N. Y

Taylor, Hiram S., Jr., A.B.; teacher; Syl-

van Ave., Unionville, Conn.

Thomajan, Puzant K., A.B.; comedy reresearch specialist, Harold Lloyd Corp.; B. 1040 N. Las Palmas Ave., Hollywood, Calif., H. 1725 N. Edgemont St., Hollywood, Calif.

Towne, Stanwood B. E., A.B., A.M. 1924; instr. chemistry; 1944 North Ave.,

Bridgeport, Conn.

White, Lester P., A.B., A.M. 1924, B.D. 1929 Yale Univ.; clergyman, head of Bible dept.; B. Mt. Hermon Sch., Mount Hermon, Mass

Zweigbaum, Abraham, A.B.; 173 Ellsworth

Ave., New Haven, Conn.

A.M.

Anderson, Edmund G. E., A.M.† Armitage, Frank G., A.M., Ph.D. 1927, B.H. 1916 Springfield Coll.; head dept. history,

1916 Springfield Coll.; head dept. history, Stony Brook Sch. for Boys; Stony Brook, L. I., N. Y.

Cockroft, Grace A., A.M., Ph.B. 1914
Brown Univ.; B. Johnson Hall, 411 W.
116 St., N. Y. C., H. 183 Highland St., Woonsocket, R. I.

Crumley, Martha M., A.M., A.B. 1922 Ohio Univ.; 176 Mill St., Athens, O.

Eastwood, Floyd R., A.M., B.P.E. 1922
Int. Y. M. C. A.; instr. physical education; B. N. Y. Univ. Sch. of Education, Washington Sq. East, N. Y. C., H. 918
Sterling Pl., Brooklyn, N. Y.

Fahl, Rudolph, A.M., B.P.E. 1921 Springfield; instr. physical education; B. Skinner Jr. H. S., Denver, Colo., H. 3152
West 41st Ave., Denver, Colo.

Ford, John V., A.M., †

Forney, John D., A.M., Sc.B. 1922 Kalamazoo Coll.; Augusta, Mich.

amazoo Coll.; Augusta, Mich.

Foster, Lawrence S., A.M.†

Guyton, Homer W., A.M., A.B. 1922 Johns Hopkins Univ.; principal, High School; Emmitsburg, Md. Harada, Taichi, A.M., Sc.B. 1915, Kujoto

Coll. of Technology; c/o Takamine Lab-

oratory Inc., Clifton, N. J.

Horton, Clifford E., A.M., B.P.E. 1919 Springfield Y. M. C. A.; director physi-cal education; B. Ill. State Normal Univ., Normal, Ill., H. 606 Normal Ave., Normal, Ill.

Husbands, Le Roy C. A.M., B.P.E. 1922 Springfield; publisher's representative, selling advertising for the Crowell Publishing Co.; B. Room 1501, 333 N. Michigan Blvd., Chicago, Ill., H. The Homestead, Evanston, Ill.

Imlah, James A. H., A.M., A.B. 1922 Univ. of British Columbia; asst. prof. history;

B. Tufts Coll., Tufts College, Mass., H.

19 Shaler Lane, Cambridge, Mass.

Jackson, Eric P., A.M., A.B. 1920 Brown
Univ.; studying at Univ. of Grenoble,
Grenoble, France; B. Hillsdale Coll.
Hillsdale, Mich.

Johnson, Warren C., A.M., Sc.B. 1922 Kalamygoo Coll.; Kent Chemical Laboratory.

mazoo Coll.; Kent Chemical Laboratory. Univ. of Chicago, Chicago, Ill.‡

Kalijarvi, T. W. V., A.M.†

LaFleur, Albert, A.M.†

Loughrey, James H., A.M., A.B. 1921 Holy Cross Coll.; instr. chemistry and cand. for Ph.D.; Georgetown Univ., Washington, D. C.

Machlan, Louis O., A.M.; B. Western State Coll. of Colo, Gunnison, Colo.

Melican, James P., A.M., A.B. 1920 Holy Cross Coll.; Fordham Prep. Sch., N. Y. C.

Mitchell, Ralph W., A.M., A.B. 1921 Union Christian Coll.; Meron, Ind.

Mullett, Charles F., A.M., A.B. 1922 Syracuse Univ.; asst. prof. English history; B. Univ. of Mo., Columbia. Mo., H. 1621 Anthony St., Columbia, Mo.

O'Leary, Ellen J., A.M.; instr. in Teacher Training Dept., in sociology and child development, also director of the kindergarten; B. Ethical Culture School, N. Y. C., H. 7 West 65th St., N. Y. C., Permanent H. 57 Channing St., Worcester, Mass.

Terry W., A.M., B.P.E. 1922 Springfield Coll. prof. physical education; B. Arcadia Univ., Wolfville, N. S., Canada.

Partridge, Allan B., A.M.†

Piper, Lewis H. A.M., A.B. 1922 Wesley-an Coll.; N. Y. Military Academy, Corn-

wall-on-Hudson, N. Y.

Pucillo, John A.M., B.P.E. 1922 Spring-field Coll.; 16 6th Ave., Newark, N. J.

Ratigan, John E., A.M., A.B. 1919 Holy Cross Coll., LL.B. 1928 Northeastern; teacher; B. Millbury H. S., Millbury, Mass., H. 10 Lucian St., Worcester, Mass.

Rice, George E., A.M., A.B. 1921 Kingfisher Coll.; teacher, physics and astronomy; B. Tougaloo Coll., Tougaloo, Miss.

Rodgers, Stanley E., Jr., A.M.†

Russell, J. Francis, A.M., A.B. 1902 Brown Univ.; 63 Fair St., Lakewood, R. I.

Schmucker, John P., A.M., A.B. 1920 Univ. of Dalles; B. St. Mary's Seminary, Perryville, Mo.

Seward, Ralph P., A.M., Sc.B. 1922 Kalamazoo Coll., Ph.D. 1925 Brown Univ.; instr. chemistry; B. Mass. Institute Technology, Cambridge, Mass., H. 82 Liberty

Ave., W. Somerville, Mass.

Shank, Marjorie M., A.M., A.B. 1921 N.
Dak. Univ.; teacher; B. Southern III.
State Normal Univ., Carbondale, III., H.

718 S. Normal Ave. Carbondale, Ill. Shiflet, Chester H., A.M., A.B. 1921 Kingfisher Coll.; 119 Oglesby Ave., Lincoln,

Shipman, Julia M., A.M., Ph.D. 1928, Sc.B. 1920 Boston Univ.; instr. geography; B. Univ. of Nebr., Lincoln, Nebr., H. Enfield, N. H.

Torigoye, Kazutaro, A.M., grad. 1913 Oka-yama Prefectural Normal Sch.; Kotojogakko Daiku, Okoyama, Japan.

B.Ed.

Park, Bessie, B.Ed.; director physical education; B. State Normal Sch., Cortland, N. Y., H. 9 Charles St., Cortland, N. Y.

Ph.D.

Branom, Frederick K., Ph.D., B.E. 1915 Ill. State Normal Univ., Sc.M. 1916 Univ. of Chicago; head dept. geography, Chicago Normal Coll.; 10325 Leavitt St., Chicago, Ill

Dexter, Mrs. Elisabeth A., Ph.D., A.B. 1908 Bates Coll., A.M. 1911 Columbia Univ.; research and writing; H. 32 Avon Hill

St., Cambridge, Mass.

Dexter, Robert C., Ph.D., A.B. 1912 and A.M. 1916 Brown Univ.; secretary dept. social relations, American Unitarian Ass'n.; B. 25 Beacon St., Boston, Mass., H. 32 Avon Hill St., Cambridge, Mass.

Fish, Andrew, Ph.D., A.B. 1919 and A.M. 1921 Univ. of Oreg.; asst. prof. history

Univ. of Oreg., Eugene, Oreg.

Fryer, H. Douglas, Ph.D.† James, Preston E., Ph.D., A.B. 1920 and A.M. 1921 Harvard Univ.; asso. prof. geography; B. Univ. of Mich., Ann Arbor, Mich.

Keeneyside, Hugh L., Ph.D.†

Nash, Mrs. Albertine A. (Richards, Albertine), Ph.D., A.B. 1914 Hunter, A.M. 1917 Columbia Univ.; consulting psychologist; B. 490 Post St., San Francisco, Calif., H. 320 Glen Drive, Sausalito, Calif. Richards, Albertine (See Nash, Mrs. Albertine A.).

Rikimaru, Ji-Yen, Ph.D., Bun-Gaku-Shi (Man of Literature) 1920 Tokyo Imperial Univ.; Hiroshima National Coll., Hiroshima, Japan.

Rosen, Raphael, Ph.D., A.B. 1916 and

A.M. 1920 Johns Hopkins Univ.; 741 Eaton St., Elizabeth, N. J.

Sherman, William R., Ph.D.† Stowe, Allen B., Ph.D.;

Switzer, J. Elmer, Ph.D., Sc.B. 1911 Univ.

of Chicago; asso. prof. geography; B. 52 Science Hall, Univ. of Ind., Blooming-ton, Ind., H. 523 S. Park Ave., Bloom-

ington, Ind.

Whyte, Earle F., Ph.D., A.B. 1920 and A.M. 1921 Dalhousie; dominion analyst; B. 7 George St., Halifax, N. S., H. 5 McDonald St., Halifax, N. S.

## CLASS OF 1924

#### A.B.

Bergan, J. Frederick, A.B.; 25 Harrison

Ave., Northampton, Mass.

Berman, Jacob I., A.B.; Colchester, Conn. Brigham, Charles A., A.B.; instr. romance languages; B. Univ. of Cincinnati, Cincinnati, Ohio, H. Crestview Apts., Mt. Auburn, Cincinnati, Ohio.

Brodie, William, A.B.; insurance; Singletary Lake, R. F. D., Millbury, Mass.‡ Chen, Jason H., A.B., A.M. 1924; 26 Yen

Kong Rd., Soochow, China.

Cohen, Irving C., A.B.; manager; B. Kane Co., 1139 Main St., Springfield, Mass., H. 174 Vernon St., Worcester, Mass. Coty, Francis J., A.B.; instr. history; High

School, Leominster, Mass.

Cowdrey, C. Francis, Jr., A.B.; asst. treasurer, asst. sales manager, and director of Bendix-Cowdrey Brake Tester, Inc.; H. 178 Walton St., Fitchburg, Mass.

H. 178 Walton St., Fitchburg, Mass. Elliott, Ray T., A.B.; manager store; B. 175 S. Main St., Canandaigua, N. Y., H. 100 Gibson St., Canandaigua, N. Y. Feinberg, Hyman I., A.B.; high school substitute in N. Y. C.; H. 579 Chester St., Brooklyn, N. Y. Gilbert, Ralph W., A.B.., A.M. 1925, Ph.D. 1927; instr. psychology, Washington Sq. Coll., N. Y. Univ. and at the Robert Louis Stevenson Sch., West 88th St.; H. 321 West 11th St., N. Y. C. Hannan, James P., A.B., A.M. 1925; teacher; B. Commercial H. S., Brooklyn, N.

er; B. Commercial H. S., Brooklyn, N. Y., H. 1233 Pacific St., Brooklyn, N. Y.

Hastings, Russell B., A.B., A.M. 1925; asst. prof. and head dept, physics; B. Macalester Coll., St. Paul, Minn., H. 77 Macalester Ave., St. Paul, Minn.

Hood, Everett W., A.B.; teacher marketing, salesmanship, and advertising; B. 1028 Main St., Buffalo, N. Y., H. 125 North St., Buffalo, N. Y.

Johnson, Carl A., A.B.; teacher, United States history and coach basketball; B. Arlington H. S., Arlington, Mass., H. 102 Grafton St., Arlington, Mass.

King, Charles V., A.B., M.D. 1928 Harvard Univ.; City Hospital, Worcester, Mass.

Landin, Harold F. W., A.B., A.M. 1925, Ph.D. 1928 Cornell Univ.; prof. history; B. Ohio State Univ., Columbus, Ohio, H. 2378 Neil Ave., Columbus, Ohio.

Lipschitz, Abraham M. (See Lyons, Abraham M.).

Lynch, Harold E., A.B.; High School, Great Barrington, Mass.

Lyons, Abraham M. (Lipschitz, Abraham M.), A.B.; 45 Barclay St., Worcester,

Miyamoto, Katsuhei, A.B.; c/o Mrs. Kohumai, 64 West 124th St., N. Y. C.‡

Pearse, Harry, A.B., Sc.M. 1926 Brown Univ.; bacteriologist, State Public Health Commission; B. 345 State Office Bldg., Providence, R. I., H. 1705 Smith St., N. Providence, R. I.

Pope, Henry W., A.B.; instr. U. S. history, civics and economics; B. High School, Naugatuck, Conn., H. 361 High

St., Naugatuck, Conn.

Popko, Peter F., A.B.; manager business: H. 94 Brantwood Rd., Worcester, Mass.

Potter, Norwood C., A.B., M.B.A. 1926 Harvard Univ.; B. 195 Broadway, N. Y. C., H. 2 Marine Ave., Apt 2A, Brooklyn, N. Y.

Price, Ronald W., A.B.; 10 Wayne St., Worcester, Mass.

Richmond, Eugene L., A.B., M.D. 1929 Cornell Univ.; interne; B. The French Hospital, 324 W. 30th St., N. Y. C., H. 87 Brookline St., Worcester, Mass.

Riffolt, Nils A., A.B., A.M. 1924; asso. physicist; B. Naval Proving Ground, Dahlgren, Va.

Riley, Michael F., A.B.; H. 111 Plantation St., Worcester, Mass.

Saunders, Richard M., A.B., A.M. 1925; instr. history; 31 Dryden Rd., Ithaca,

Schultz, Isadore E., A.B., M.B.A. 1926 Harvard Univ.; distributor in central Mass. of Penn. petroleum and its products for Kendall Refining Co., B. 81 Lafayette St., Worcester, Mass., H. 25 Chamber-lain Pkwy, Worcester, Mass.

Shalloo, Jeremiah P., A.B., A.M. 1927, instr. sociology, Wharton Sch.; B. 305 Logan Hall, Univ. of Penn., Philadelphia, Pa., H. 4035 Chestnut St., Philadelphia, Pa.

Shor, David M., A.B., M.D. 1929 Boston Univ.; interne: B. City Hospital, Bing-

hampton, N. Y

Tanner, Elmo, A.B.; machinist; 554 Pleasant St., Worcester, Mass.

Thayer, P. Edward, A.B.; teacher, Commercial H. S.; B. 170 Pond St., Providence, R. I., H. 12 Iowa St., Worcester, Mass.

Towne, Edmund B., A.B., A.M. 1925; instr.

chemistry; B. Ia. State Coll., Ames, Ia., H. 65 Henderson Terrace, Ames, Ia.

Wooster, Charles B., A.B., A.M. 1925, Ph.D. 1928 Brown Univ.; instr. organic chemistry; B. Brown Univ., Providence, R. I., H. 14 Congdon St., Providence, R. I. Yanofsky, Jacob I. (See Young, Jacob Y.).

Young, Jacob Y. (Yanofsky, Jacob I.), A.B., LL.B. 1927 Harvard Univ.; B. 390 Main St., Worcester, Mass., H. 20 Berwick St., Worcester, Mass.

#### A.M.

Buxton, Kenneth S., A.M.†

Caase, Emilie C., A.M., grad. 1905 Worcester State Normal, Certificate Coll. Equivalence 1922 granted by Worcester Sch. Committee; teacher; H. 77 Downing St., Worcester, Mass. Cammett, Stuart H., A.M., Ph.B. 1922 Den-

ison Univ.; house principal; B. Southeastern H. S., Detroit, Mich. Carlson, Harry G., A.M., B.P.E. 1920 Springfield Coll.; director physical education; B. Univ. of Colo., Boulder, Colo., H. 1205 College Ave., Boulder, Colo.

Chen, Jason H., A.M.†

Coulson, A. Gertrude, A.M., Sc.B. in Ed. 1921 Boston Univ.; teacher English; B. Jr. H. S., Worcester, Mass., H. 157 Dewey

St., Worcester, Mass.
Cross, Hartley W., A.M., Ph.D. 1929, B.H.
1923 Y. M. C. A.; prof. history and economics; B. Springfield Coll., Springfield,
Mass., H. 4 Mt. Pleasant St., Worcester, Mass.

Engleman, Harry A., A.M., B.H. 1923 Springfield; head of fuel dept.; B. Hill City Coal and Lumber Co., Summit, N. J., H. Clinton Ave., New Providence, J., E N. I.

Farrington, Wendell F., A.M., Sc.B. 1922

Colby Coll.; Livermore Falls, Me. Grey, Robert M., A.M.; minister; 110 Col-

lege St., Worcester, Mass. Handy, Le Roy M., A.M.† Higgins, Donald E., A.M.† Howe, George F., A.M.

Howell, Edna V. (See McKnight, Mrs.

E. H.).

Johnson, George E., A.M., A.B. 1887 and A.M. 1890 Dartmouth Coll., asso. prof. education; B. Graduate Sch. of Education, Harvard Univ., Cambridge, Mass., H. 95 Raymond St., Cambridge, Mass.

Knight, Ella B., A.M., A.B. 1921 Univ. of Omaha; special teacher geography, Jr. H. S. grades; B. Dundee Sch., Omaha,

Nebr., H. 4216 Harney St., Omaha, Nebr. Lloyd, Frank S., A.M., B.P.E. 1923 Springfield Coll.; 147 East 80th St., N. Y. C.‡ Mack, Harry E., A.M., A.B. 1917 Cornell

Univ.; supt. of schools; Box 225, Leicester, Mass.

Morrison, Arthur B., AIM.†

Mountain, Harold A., A.M., B.H. 1923 Springfield; men's program and research secretary; B. Honolulu Y. M. C. A., Honolulu, Hawaii.

McKnight, Mrs. Edna H. (Howell, E. V.), A.M., A.B. 1923 Ohio Univ., Ph.D. 1927 Ind. Univ.; private work in clinical psychology; 1210 13th St., Bedford, Ind.

Neal, Arthur M., A.M.†

Nuki, Denmatsu, A.M.; prof. sociology and economics; B. Senshu Univ., Kanda-Ku, Tokyo, Japan.

Perlmutter, Nucia, A.M.; c/o Teachers College, International Institute, Columbia

Univ., N. Y. C. Ridderhoff, John A., A.M., A.B. 1923 Kala-mazoo Coll., Ph.D. 1929 Brown Univ.; research chemist; 2208 John R. St., Apt. 14, Detroit, Mich.
Riffolt, Nils A., A.M.†
Robertson, Ina C., A.M., A.B. 1921 Univ.

of Ill.; geography teacher and head of the dept.; B. State Teachers Coll., Valley City, N. Dak.

Roope, Percy M., A.M.†
Russell, H. Harrison, A.M., Ph.D. 1926,
B.Ed. 1920 Ill. State Normal Univ.; teacher; B. State Teachers Coll., Bloomsburg, Pa., H. 380 East Third St., Bloomsburg, Pa.

Towne, Stanwood B. E., A.M.†

White, Lester P., A.M.;

Winslow, Guy H., A.M., Fellow at Clark Univ., Worcester, Mass., H. S. Lancaster, Mass.

#### B.Ed.

Callahan, Mary J., B.Ed.; principal; B. Webster Square Sch., Worcester, Mass., H. 145 Woodland St., Worcester, Mass. Collamore, Edna A., B.Ed., A.M. 1928;

principal; B. Roosevelt Sch., Worcester, Mass., H. 11 Isabella St., Worcester, Mass.

Conner, J. Eva, B.Ed.; 89 High St., Southbridge, Mass.

Hodge, Mrs. Thekla, B.Ed.; special tutoring and classes at the Worcester Women's Club and the Y. M. C. A.; H. 26 Lauf St., Worcester, Mass.

#### Ph.D.

Auchampaugh, Philip G., Ph.D., A.B. 1920 N. Y. Coll. for Teachers, A.M. 1921 Syracuse Univ.; prof. history; B. State Teachers Coll., Duluth, Minn.

Des Autels, George F., Ph.D.†

Greer, Willard N., Ph.D.†

Morse, L. Lucille, Ph.D., A.B. 1918 and

A.M. 1919 Tufts Coll.; head dept. history; B. Western Coll., Oxford, Ohio,

H. 23 Lincoln St., Arlington, Mass. Sessions, William V., Ph.D., Sc.B. 1917 and Sc.M. 1921 W. P. I.; B. Princeton Univ., Princeton, N. J.

#### CLASS OF 1925

#### A.B.

Beswick, Albert E., A.B., LL.B. 1928 Yale Univ.; H. Diamond Point, N. Y.

Blades, Ansley O., A.B.; research and compounding of rubber insulation for electrical conductors: B. Rome Wire Co. Div., General Cable Corp., Rome, N. Y., H. 415 W. Thomas St., Rome, N. Y.

Clarkson, Paul S., A.B., LL.B. 1928 Harvard Univ.; attorney in legal dept. Consolidated Gas, Elec. Light and Power Co. of Baltimore; B. 1707 Lexington Bldg., Baltimore, Md., H. 530 North Charles St., Baltimore, Md.

Crouch, Irvin E., A.B.; Aetna Insurance

Co.; 84 Manchester St., Hartford, Conn.‡ Dix, Charles T., A.B., A.M. 1929; teacher, history and English; B. Kent's Hill Seminary, Kent's Hill, Me., H. Southville, Mass.

Dodge, Raven O., A.B.; principal, Edge-combe Jr. Academy; H. Edgecombe Circle, Pimlico, Baltimore, Md.

Doherty, Richard P., A.B., A.M. 1926: instr. economics and research: B. Boston Univ., Coll. of B. A., 525 Boylston St., Boston, Mass., H. 60 Fenway, Boston, Mass.

Dorward, Arthur R., A.B.; secretary, Fuller Regalia & Costume Co.; B. 12 High St., Worcester, Mass., H. 19 Nottingham Rd., Worcester, Mass. Erickson, Robert S. H., A.B.; teacher and

coach, biography, geography and medieval history, football, baseball and winter sports; B. St. Johnsbury Academy, St. Johnsbury, Vt., H. 13 Highland Ave., St. Johnsbury, Vt.

Ferguson, John H., A.B., A.M. 1926; 53

Queen St., Worcester, Mass.

Ferrara, Adam E., A.B.; B. Standard Statistics Co., 47 W. St., N. Y. C. Geldard, Frank A., A.B., A.M. 1926, Ph.D. 1928; asso. prof. psychology; B. Univ. of Va., University, Va., H. 6 Jack Jovett Apt., University, Va.

Gladding, G. Roger, A.B., A.M. 1926; manager, Rogers Brush Works; Chester,

Conn. Goldblatt, Leo A., A.B., A.M. 1926; 916 Bryn Mawr Rd., Pittsburgh, Pa.‡ Grandone, Peter, A.B.; asst. chemist; U. S. Bureau of Mines, Bartlesville, Okla.

Hammond, Arthur N., A.B.; instr. English' and oral expression; B. Cushing

Academy, Ashburnham, Mass.

Hanover, Walter S., A.B., A.M. 1926;
instr.; B. Stonington H. S., Stonington, Conn., H. 85 Baker Ave., Groton, Conn. Kellogg, Raymond H., A.B.; 28 Mattoon

St., Springfield, Mass.‡

Montgomery, Eugene P., A.B.; Fay Sch., Southboro, Mass.

McLean, Francis T., A.B.; manager, Bradstreet's Adj. Service, St. Louis, Mo. Potts, W. Gerald, A.B.; teacher; B.

H. S., New Britain, Conn., H. 31 Emmons Pl., New Britain, Conn.

Reynolds, Paul E., A.B., A.M. 1927 Harvard Univ.; asst. in English at Univ. of Ill. and studying for the doctorate; H. 904 Nevada St., Urbana, Ill., Permanent H. 15 Lincoln St., Framingham, Mass. Sleeper, L. Maxwell, A.B., A.M. 1926; grad.

asst. physics; B. Purdue Univ., Lafayette, Ind., H. 1028 State St., West Lafayette, Ind.

Stejer, Francis A., A.B., A.M. 1927 Univ. of Mont.; farmer; Box 1106, Deer Lodge, Mont.

Toomey, John J., A.B.; business; 41 E. Utica St., Buffalo, N. Y.

Weymouth, Frank D., A.B.; chemist; 52 Woodland St., Worcester, Mass.

#### A.M.

Allen, Mary Kibbe, A.M., Ph.D. 1927; traveling and studying; Pension Elvira, Konradstrasse 12, Munich, Germany

Atwood, Rollin S., A.M., Ph.D. 1928, Sc.B. 1924 Univ. of Chicago; asso. prof. economic geography and asst. dean; B. Coll. of Commerce, Univ. of Fla., Gainesville, Fla., H. 449 Roux St., Gainesville,

Barbosa, Pilar (See de Rosario, Mrs. Pilar B.).

Burfield, Helen S., A.M., A.B. 1924 Univ. of Oreg.; 614 Pine St., Oroville, Calif.: Carlson, C. William, A.M., A.B. 1910 Bethany Coll., B.D. 1913 Augusta Coll. and Theol. Semin.; clergyman; H. 11 Henry

St., East Boston, Mass. de Rosario, Mrs. Pilar B. (Barbosa, Pilar), A.M., B.Ed. 1924 Univ. of Porto Rico:

Box 534, San Juan, Porto Rico Gates, Paul W., A.M., Sc.B. 1924 Colby Coll.; instr.; B. Harvard Univ., Cambridge, Mass., H. 31 Shaler Lane, Cambridge, Mass., Permanent H. Keene, N. H. Gilbert, Ralph W., A.M.†

Girard, Lillian, A.M., A.B. 1924 Univ. of Mich.; student, Simmons Coll., Sch. of Social Work; H. 193 Salem St., Boston, Mass.

Hannan, James P., A.M.

Hastings, Russell B., A.M.† Herbert, Mrs. Rose, A.M., B. E. 1924 Worcester State Normal; H. 749 Pleasant

St., Worcester, Mass.

Johnson, Emil, A.M., A.B. 1919 Augustana Coll., B.D. 1922 Augustana Theol. Semin.; minister in the Lutheran Church of the Augustana Synod; H. 9 Adams St., Orange, Mass.

Kirk, Grayson L., A.M., A.B. 1924 Miami Univ.; South Hall, Univ. of Wis., Madi-

son, Wis.

Landin, Harold F. W., A.M.†

Libby, Paul O., A.M., A.B. 1924 Bates Coil.; head of history dept.; B. High School, Taunton, Mass., H. 159 Broadway, Taunton, Mass.

Mason, Carol Y., A.M., A.B. 1924 Wellesley Coll.; H. Halfway Pond, Bournedale,

Matthews, Marietta, A.M., B.Ed. 1922 Worcester State Normal Sch.; teacher of French and library usage, librarian at Jr. H. S.; B. Jr. H. S., Worcester, Mass., H. 37 Merrick St., Worcester, Mass.

Moore, Early W., A.M., A.B. 1914 Emory and Henry Coll.; Box 121a, Manteca,

Calif.‡

Nafe, Robert W., A.M., Ph.D. 1927, A.B. 1916 Univ. of Colo.; B. Dept. of Rural Soc. Research, Cornell Univ., Ithaca, N. Y., H. 124 Catherine St., Ithaca, N. Y.

Pooler, Priscilla A., A.M., A.B. 1924 Brown Univ.; research position at the Boston Psychopathic Hospital, working for the chief of Therapeutic Research; B. 74 Fenwood Rd., Boston, Mass., H. 14 Worcester, St., Boston, Mass.

Post, Clarence, A.M., A.B. 1907 West Va. Univ.; head dept. geography; B. State Normal Sch., Glenville, W. Va.

Saunders, Richard M., A.M.†

Su, Lee, A.M., Sc.B. 1924 Colby Coll., Certificate, Public Accountant; prof. economics, Peiping National Agricultural Coll., and chief accountant of Peiping Salt Industrial Bank; B. Peiping Salt Industrial Bank, Peiping, China, H. 58 Tung Shih Shih Tiao, East City, Peiping, China.

Suvoong, Thomas H., A.M., B.P.E. 1923 Springfield; 22 Kwaing Wan Rd., Shang-

hai, China.

Swett, Phelps N., A.M., Sc.B. 1907 M. I. T.; prof. geography and geology; B. Middlebury Coll., Middlebury, Vt.

Thomas, Katheryne C., A.M., A.B. 1921 Vassar Coll.; asst. prof. geography; B.

State Teachers Coll., Buffalo, N. Y., H. 264 Summer St., Buffalo, N. Y. Tinsley, William W., A.M., A.B. 1920 Wash-

Missionary Coll.; asso. prof. history, dean of men; B. Teachers Coll., Flagstaff, Ariz.

Towne, Edmund B., A.M.† Williams, John L., A.M., A.B. 1911 Bates Coll.; instr. United States history; B. North H. S., Worcester, Mass., H. 30 Beaconsfield Rd., Worcester, Mass.

Wooster, Charles B., AM.†

#### B.Ed.

Fay, Louise, B.Ed.; principal, Waltham Sch. for Girls; 327 Lexington St., Waltham, Mass.

Reidy, Edward P, B.Ed.; Hope H. S.,

Providence, R. I.

Scannell, Agnes V., B.Ed.; asst.; B. Jamaica Plain H. S., Boston, Mass., H. 63 Ridgemont St., Allston, Mass.

#### Ph.D.

Buzzard, Robert G., Ph.D., Sc.B. 1916 and Sc.M. 1917 Univ. of Chicago; prof. geography, head dept. of geography; B. Ill. State Normal Univ., Normal, Ill., H. 608 Normal Ave., Normal, Ill.

Dickinson, Charles A., Ph.D.†

McConnell, Wallace R., Ph.D., A.B. 1912 Univ. of Ill., A.M. 1917 Univ. of Wis.; Miami Univ., Oxford, Ohio.

Ridgley, Douglas C., Ph.D., A.B. 1893 Ind. Univ., Sc.M. 1922 Univ. of Chicago; prof. geography in education, director of Summer School, director, Home Study Dept.; B. Clark Univ., Worcester, Mass., H. 166 Woodland St., Worcester, Mass.

Schwenning, Gustav T., Ph.D.†

Smith, Sherman M., Ph.D., A.B. 1913 and A.M. 1921 Syracuse Univ.; asso. prof. history; B. Colgate Univ., Hamilton, N. Y., H. 25 E. Pleasant St., Hamilton, N. Y.

Varney, Burton M., Ph.D., A.B. 1907 and A.M. 1910 Harvard Univ.; asso. prof. geography; B. Univ. of Calif., at Los Angeles, Los Angeles, Calif., H. 917 No. Vista St., Los Angeles, Calif.

White, Charles L., Ph.D., Sc.B. 1920 Denison Univ.; head dept. geography and geology; B. Randolph-Macon Woman's Coll., Lynchburg, Va., H. 2408 M. St., Lynchburg, Va.

#### CLASS OF 1926

#### A.B.

Anderson, Henry C., A.B., LL.B. 1929 Boston Univ.; lawyer; B. 626 Slater Bldg., Worcester, Mass., H. 52 Olga Ave., Worcester, Mass.

Bassett, Walter G., A.B.; inspector—Retail Credit Co. of America; 95 Hillcrest Ave.,

Worcester, Mass.

Benner, Clyde F., A.B., A.M. 1927; transmission instruments research; B. Bell Telephone Labs., 463 West St., N. Y. C., H. 498 Main St., Orange, N. J.

Berg, August A., A.B.; missionary; Midnapore District, Bengal, India.

Carlson, Gustaf H., A.B., A.M. 1927; 22

Stockholm St., Worcester, Mass.

Choquette, Charles A., A.B.; instr. French and German; B. Colgate Univ., Hamil-ton, N. Y., H. 8 Hamilton St., Hamilton,

Cooke, James A., A.B.; teacher, mathematics, chemistry and science; B. High School, Shrewsbury, Mass., H. West Boylston, Mass.

Crossley, Lester F., A.B.; asst. manager; B. Park Bldg., Worcester, Mass., H. 130 Grandview Ave., Worcester, Mass.

Dawson, George A., A.B., A.M. 1927; Du-Pont-Pathe Film Mfg. Co.; Parlin, N. J.

Denny, Nathan J., A.B.; teacher, New Haven H. S.; 247 Columbus Ave., New Haven, Conn.

Dowd, Gorden K., A.B. Died 1929.

Dumas, Theodore E., A.B.; teacher, mathematics and history; B. Leominster Jr. H. S., Leominster, Mass., H. 9 Upsala St., Worcester, Mass.

Durgan, Elford S., A.B., A.M. 1927 Princeton Univ.; instr. chemistry; B. Univ. of Me., Orono, Me., H. University Inn,

Orono, Me.

Edwards, George (Epstein, George), A.B.; Macy Training Sch., R. H. Macy & Co., N. Y. C.

Epstein, George (See Edwards, George).

Fallstrom, Iver W., A.B., A.M. 1927; purchasing agent and chief chemist; B. The Aspinook Co., Jewett City, Conn., H. The Aspinook House, Jewett City, Conn.

Felt, William N., A.B.; student at Bordeaux Univ., France; H. Northboro,

Mass.

Fitzgerald, John J., A.B.; 11 Euclid Ave.,

Worcester, Mass.

Gannon, Thomas C., A.B., A.M. 1919 Columbia Univ.; teacher, Nathan Hale Sch.; mental examiner public schools;

35 Garfield Ave., New London, Conn. Graf, Francis O., A.B.; agency development, life dept., Travelers Insurance Co., B. 30 S. Broadway, Yonkers, N. Y., H. Riverview Gardens, Yonkers, N. Y.

Griff, Samuel, A.B., grad. 1929 Training School for Jewish Social Work; asst. headworker; B. Bronx Community

House, 1637 Washington Ave., N. Y. C., H. 170 Harding St., Worcester, Mass. Griffith, Clifford O., A.B.; Travelers Insurance Co.; H. 16 Brownell St., Worcester, Mass.

Hadley, Allan M., A.B.; head science dept.; B. Agawam H. S., Agawam, Mass., H. 137 Oakland St., Springfield, Mass

Higginbottom, Edwin, A.B.; instr., French and German; B. Worcester Polytechnic Institute, Worcester, Mass., H. Millbury,

Mass.

Lamb, Wallace E., A.B., A.M. 1927; Bolton Landing, N. Y.

Loewenberg, Bert J., A.B., A.M. 1927, A.M.
1930 (Feb.), Harvard Univ.; division of history, government and economics. dept. history, Harvard Univ.; H. 23 Gleason St., Dorchester, Mass.

Loungway, Ferdinand J., A.B., B.D. 1929 Yale Univ.; H. 112 West Gravers Lane,

Chestnut Hill, Philadelphia, Pa.

Mead, Raymond G., A.B.; 885 Worthing-

ton St., Springfield, Mass.‡

Nicol, Theodore, A.B., A.M. 1928 Harvard Univ.; instr. romance languages, Harvard Univ. and graduate student for Ph.D. at Harvard Univ.; H. 1130 Mass, Ave., Cambridge Mass., Permanent H. 33 Millbury St., Worcester, Mass. O'Bryan, Miles, A.B., A.M. 1927 Northwest-

ern Univ.; physics dept., Johns Hopkins

Univ., Baltimore, Md. anarity, Gerim M., Panarity, A.B.; insurance broker; 371 Columbus Ave., Boston, Mass.

Pitcher, Thornton L., A.B.; asst. principal;

B. High School, Greensboro, Vt.

Preissel, William F., A.B.; Powell Bldg., Church St., New Haven, Conn.

Reid, Frank J., A.B., B.D. 1929 Drew Univ.; pastor; B. Methodist Episcopal Church, Sharon Springs, N. Y.

Rogers, John H., A.B.; 32 Windham St., Worcester, Mass.

Sachs, Jacob Y., A.B., LL.B. 1929 Boston Univ.; lawyer; B. 109 Church St., New Haven, Conn.

Smith, Louis V., A.B.; executive editor, Jewish Civic Leader; B. 25 Foster St., Worcester, Mass., H. 99 Penn Ave., Worcester, Mass.

Springs, James D., A.B.; chemical engineer; 66 Progress Ave., Providence, R. I.

Stetson, William C., A.B.; investment banking; Oxford, Mass.

Storer, Irving L., A.B., A.M. 1928 Harvard Univ.; instr. English; B. Lafayette Coll., Easton, Pa.

Surabian, Simon, A.B.; teacher algebra

and business arithmetic; B. Jr. H. S.,

and business arithmetic; B. Jr. H. S., Winthrop, Mass., H. Prospect St., West Boylston, Mass.

Swan, Paul R., A.B., A.M. 1929; executive secretary of student Y. M. C. A. and instr. in English; B. Worcester, Polytechnic Institute, Worcester, Mass., H. 50 Holden St., Worcester, Mass.

Tarlov, Isadore M., A.B.; fourth year medical student; B. Johns Hopkins Medical School Baltimore Md. H. 16 Grove St.

School, Baltimore, Md., H. 16 Grove St.,

S. Norwalk, Conn.

 Tashjian, John, A.B.; Rm. 1108, 245 5th
 Avenue, N. Y. C.
 Weber, J. Henry, A.B., A.M. 1927; hydrographer (Dept. of Meteorology and Hydrography); B. Box 1384 Cristobal, Canal Zone, H. Colon Beach, Republic of Panama.

Weed, Bester C., A.B., A.M. 1927; asst. prof. biology; B. Norwich Univ., North-

field, Vt.

A.M.

Aleck, Adolph W., A.M., A.B. 1923 Ogelthorpe Univ.; instr. psychology, Sch. of Education, N. Y. Univ.; B. Sch. of Education, Washington Sq., N. Y. C., H. Western, Nebr.

Baugh, Ruth E., A.M., Ph.D. 1929, A.B. 1921 Univ. of Calif.; asst. prof. geography; B. Univ. of Calif., at Los Angeles, 405 Hilgard Ave., Los Angeles, Calif., H.

2069 Casa Grande St., Pasadena, Calif. Burrill, Meredith F., A.M., Ph.D. 1930, A.B. 1925 Bates Coll.; H. 24 Loudon St., Worcester, Mass., Permanent H. 6 Crooker St., Augusta, Me.

Cowdell, Lillian F. (See Gates, Mrs. Lillian

Cowell, Charles C., A.M., B.P.E. 1921 Y. M. C. A.; Robert Coll., Constantinople, Turkey.

Doherty, Richard P., A.M.†

Donoghue, Cornelius S., A.M., A.B. 1924 Holy Cross Coll.; asst. prof. economics and sociology; B. Holy Cross Coll., Wor-cester, Mass., H. 176 Vernon St., Wor-cester, Mass.

Duncker, Karl, A.M.; Junker Jorgster, 16, Karlshorst, Berlin, Germany.

Ferguson, John H., A.M.† Foley, Gardner P. H., A.M.†

Foley, Harriet A., A.M., B.Ed. 1923 Worcester State Normal; teacher, High School; H. 26 Perkins St., Worcester, Mass.

Gates, Mrs. Lillian F. (Cowdell, Lillian F.), A.M., A.B. 1924 Univ. of British Columbia; instr. history and economics; State Normal Sch., Bridgewater, Mass.

Geldard, Frank A., A.M.†

Gladding, G. Roger, A.M.† Goldblatt, Leo A., A.M.† Hanover, Walter S., A.M.† Harden, Luberta M., A.M., Ph.D. 1929, A.B. 1922 Wash. State Coll.; asst. editor, Clark Univ. Press; B. Clark Univ., Worcester, Mass., H. 22 Downing St., Worcester, Mass.

Hickman, Elizabeth L., A.M., A.B. 1925 Goucher Coll.; graduate student, Cornell Univ., and asst. in European history; H. 321 Dryden Rd., Ithaca, N. Y. Jodrey, Viola, A.M., Sc.B. 1925 Colby;

Roycemore Sch., Evanston, Ill.

Keller, Donald, A.M., Sc.B. 1925 Ind. State Normal Univ.; head earth science dept.; B. Nebr. State Teachers Coll., Kearney, Nebr., H. 2801 8th Ave., Kearney, Nebr.

Lagoudakis, Chariloas G., A.M., B.H. 1925 Springfield; secretary, American Hellenic Council; B. 512 Fifth Ave., N. Y. C., H. 98 Dunmoreland St., Springfield, Mass.

Liggett, John R., A.M., Ph.D. 1927, A.B. 1923 Univ. of Kans.; B. Dept. of Psychology, Univ. of Calif., Los Angeles, Calif.

Martin, Mrs. Maude C., A.M., A.B. 1914 Univ. of Wis.; 2475 Norfolk Rd., Cleve-

land Heights, Ohio.

Milstead, Harley P., A.M., B.Ed. 1923 III. State Normal; teacher geography; B. State College of Education, Upper Montclair, N. J

McKelvey, Blake, A.M., A.B. 1925 Syracuse Univ.; graduate student, Harvard Univ., H. 13 Cleveland St., Cambridge,

Noble, Dorothy V., A.M., A.B. 1924 Univ. of Ill.; asst. prof. geography, B. Mt. Holyoke Coll., South Hadley, Mass. Packard, Leonard O., A.M., Sc.B. 1904 Har-

vard Univ.; 68 Warren St., Needham, Mass.

Patchett, Howard G., A.M., A.B. 1914 Union Coll.; So. Lancaster, Mass.‡

Sleeper, L. Maxwell, A.M.†

#### B.Ed.

Duke, Mary A., B.Ed.; teacher; B. Worcester Continuation Sch., Worcester, Mass., H. 17 Seymour St., Worcester, Mass.

Merritt, Bessie A., B.Ed.; teacher Latin and English, Fredonia H. S., Fredonia, N. Y.; B. Box 211, Dunkirk, N. Y., H. Sheriden, N. Y

Mullany, Catherine P., B.Ed.; teacher public schools; H. 51 Downing St., Worces-

ter. Mass.

Shields, Hazel D., B.Ed.; research asst. for Univ. of Ariz.; H. Hotel Annapolis, Washington, D. C.

Van Cleef, Mrs. Frieda, B.Ed.; H. 322 E.

Torrence Ad., Columbus, Ohio.

Zeller, Rose, B.Ed., A.M. 1930; H. 721 E.

Lawrence St., Springfield, Ill.

Ph.D.

Casto, E. Ray, Ph.D., Sc.B. 1911 and Sc.M. 1913 W. Va. Wesleyan Coll., A.M. 1918 George Peabody Coll. for Teachers; H.

Emory, Va.

Ekblaw, W. Elmer, Ph.D., A.B. 1910 and A.M. 1912 Univ. of Ill.; prof. geography, editor "Economic Geography"; B. Clark Univ., Worcester, Mass., H. Box 431, North Grafton, Mass.

Jonasson, Olof G., Ph.D., grad. 1915 Univ. of Commerce, Stockholm, grad. 1922 Univ of Stockholm (Sweden); Dalagotan 26, Stockholm, Sweden.

Meenes, Max, Ph.D.†

Roy, Satyananda, Ph.D., S.T.B. 1923 and A.M. 1924 Tufts, B.D. 1924 Meadville Theol. Sch.; c/o Prof. J. M. Sen, 1 Giris Vidyaratna Lane, Calcutta, India.

Russell, H. Harrison, Ph.D.;

Van Cleef, Eugene, Ph.D., Sc.B. 1908 Univ. of Chicago; prof. geography and foreign trade; B. Ohio State Univ., Columbus, Ohio, H. 322 Torrence Rd., Columbus, Ohio.

# CLASS OF 1927

#### A.B.

Beaton, Stephen, Jr., A.B.; teacher French and athletics coach; B. Millbury H. S., Millbury, Mass., H. 7 West St., Millbury, Mass.

Bresev, Morris I., A.B.; grad. student dept. physiology; B. Yale Univ., New Haven, Conn., H. 4 Concord St., S. Norwalk, Conn.

Civalier, Roland B., A.B.; 67 Oxford St.,

Auburn, Mass.

Corbin, Milton W., A.B.; student; H. 6
Loudon St., Worcester, Mass.

DeGangi, Francis L., A.B.; graduate student, Univ. of Mo.; 610 College Ave.,

Columbia, Mo.

Dickinson, Roger F., A.B.; teacher, English; B. Spencer H. S., Spencer, Mass.,

H. 19 Summit St., Spencer, Mass. Dow, Richard B., A.B., A.M. 1928; instr. physics; B. Worcester Polytechnic Institute, Worcester, Mass., H. 203 Park Ave., Worcester, Mass.

Dyer, George B., A.B.; 346 Concord St.,

Framingham, Mass.

Eagan, Henry F., A.B., A.M. 1928; Technical Club, Kenvil, N. J.

Fitzgerald, John E., Jr., A.B.; instr. French and German; B. Worcester Institute Technology, Worcester, Mass., H. 159 Summer St., Fitchburg, Mass.

Forsberg, Randolph W. A., A.B.; field asst.; B. Travelers Ins. Co., Boston, Mass., H. 148 Eastern Ave., Worcester,

Geer, Gordon N., A.B.; B. John Hancock Life Ins. Co., Worcester, Mass., H. 2 Clement St., Worcester, Mass.

Goeller, Robert B., A.B.; 1001 N. George

St., Rome, N. Y.

Graham, Clarence H., A.B., A.M. 1928, Ph.D. 1930; H. 14 Lewis St., Worcester,

Mass.

Green, Hyman H., A.B.; student, John Hopkins Medical Sch.; 106 Woodward Ave., So. Norwalk, Conn.

Keller, Clarence W., A.B.; Oak St., Thomaston, Conn.

Larrabee, Carlton H., A.B.; graduate student at Harvard Univ.; B. 32 Graham St., Cambridge, Mass., H. 72 Vine St., Leominster, Mass.

Little, James G., A.B.; 3 Chadwick St., Worcester, Mass.

Moore, J. Robert, A.B.; secretary, Moore Special Tool Co. Inc.; B. 358 John St., Bridgeport, Conn., H. 568 Brewster St., Bridgeport, Conn.

Morrill, Emmet T., A.B.; instr. French; B. Belmont H. S., Belmont, Mass., H. 23 Ellsworth Ave., Brockton, Mass. O'Halloran, William F., A.B.; 48 Grove

St., E. Weymouth, Mass.

Porter, Gordon D., A.B.; salesman for The G. E. Prentice Mfg. Co.; B. 200 Fifth Ave., N. Y. C., H. 77 Adams St., New Britain, Conn.

Schaefler, Martin, A.B. Deceased.

Sheftel, Harry B., A.B.; H. 153 Providence St., Worcester, Mass.Shipman, Fred W., A.B.; 129 West St.,

Worcester, Mass.

Silverman, Samuel, A.B.; 1054 Main St., Worcester, Mass.

Small, Ralph L., A.B.; Pennington Sch., Pennington, N. J.

Swartz, David E., A.B.; student; H. 32 Gorham St., Cambridge, Mass., Permanent H. 48 Barclay St., Worcester, Mass.

Tabor, Osborne B., A.B., A.M. 1928; instr. chemistry and physics; B. The Swavely Sch., Manassas, Va.; H. 133 Everett St., Southbridge, Mass.

Tierney, Thomas J., A.B.; 480 Morris St.,

Albany, N. Y

Wolfe, George M. D., A.B., grad. 1928 The Training School for Jewish Social Work; research asst.; B. The Training School for Jewish Social Work, 71 W: 47th St., N. Y. C., H. 837 44th St., Brooklyn, N. Y. Young, Richard E., A.B.; 107 Spring St.,

Athol, Mass.

Zarrow, Harry, A.B., student at Harvard
Law School; B. 32 Gorham St., Cambridge, Mass., H. Sutton Rd., Millbury, Mass.

#### A.M.

Atwood, Wallace R., A.M., Ph.D. 1930, Sc.B. 1926 Univ. of Chicago; H. 160 Woodland St., Worcester, Mass. Bannister, Lois A., A.M., A.B. 1924 Smith

Coll.; instr. history; B. Wheaton Coll.,

Norton, Mass.

Barnes, Carlton P., A.M., Ph.D. 1929, Sc.B. 1926 N. Y. State Coll. of Forestry; asst. agricultural economist; B. Div. of Land Economics, Bureau of Agricultural Eco-

Beconomics, Bureau of Agricultural Economics, Washington, D. C., H. 4542 43rd Place, N. W., Washington, D. C.

Benner, Clyde F., A.M.†

Bergman, Carl J., A.M., A.B. 1926 Colby Coll.; Benedict Coll., Columbia, S. C.

Bowden, Hervey F., A.M., A.B. 1926 Univ. of Me.; instr. history; B. Gardner H. S., Gardner, Mass., H. 42 Charles St., South Gardner, Mass. Gardner, Mass.

Breen, Thomas A., A.M., A.B. 1925 Holy Cross Coll.; teacher; B. Holy Cross Coll., Worcester, Mass., H. 32 Gardner St., Worcester, Mass.

Carlson, Gustaf H., A.M.†

Cole, Mrs. Ruth L. (Laidlaw, Ruth), A.M., B.Ed. 1925 Western Ill. State Teachers Coll.; H. 714 S. Morton Ave., Okmulgee, Okla.

Crane, Mrs. Charles B. (Horne, Edith L.), A.M., A.B. 1925 Vassar Coll.; 6340 Black-

stone Ave., Chicago, Ill.

Dawson, George A., A.M.† Fallstrom, Iver W., A.M.† Forsythe, Marion B., A.M.†

Gooze, Charles, A.M., Ph.D. 1929, A.B. 1926 Coll. of the City of Detroit; financial research; B. 60 Beaver St., N. Y. C., H. 112 W. 75th St., N. Y. C.

Gueffroy, Edna M., A.M., B.Ed. 1926 Ill. State Normal Univ.; 207 W. Graham

St., Bloomington, Ill.

Hart, Mrs. Isabelle K., A.M.; supervisor of geography; B. State Normal Sch., Oswego, N. Y., H. 155 E. Third St., Oswego, N. Y.

Heath, Herschel, A.M., A.B. 1926 Fairmount Coll.; prof. history and government; B. South Park Coll., Beaumont, Tex., H. 4540 Highland St., Beaumont, Tex.

Horne, Edith L. (See Crane, Mrs. Charles

Howard, Palmer P., A.M.;

Hunt, Thomas F., A.M., A.B. 1904 Univ

of Minn.; H. Bellingham, Wash. Johannsen, Dorothea E., A.M., Ph.D. 1929, A.B. 1924 Cornell Univ.; instr. psycholagy; B. Wellesley Coll., Wellesley, Mass.,

H. Horton House, Wellesley, Mass.

Koeppe, Clarence E., A.M., Ph.D. 1929,
Sc.B. 1914 Colgate Univ.; B. State Teachers Coll., Springfield, Mo., H. 303 Kingsbarde St., Springfield, Mo.

Laidlaw, Ruth (See Cole, Mrs. Ruth L.).

Lamb, Wallace E., A.M.†

Loewenberg, Bert J., AlM.† Merriam, George H., A.M.†

Miller, Eileen M., A.M., A.B. 1926 Mt. Holyoke Coll.; traveling representative introducing "The Book House Group of Reading" to young mothers; B. The Book House for Children, 830 Park Square Bldg., Boston, Mass., H. 11 Oliver St., Worcester, Mass.

Mitchell, Marion, A.M., A.B. 1926 Univ. of British Columbia; Curtis Univ. Scholar at Columbia Univ., studying for the degree of Ph.D. in history; H. Box 257 Johnson Hall, Columbia Univ., N. Y. C.

Page, John L., A.M., Ph.D. 1929, A.B. 1926 Univ. of Okla.; asso. in geology; B. 436A Natural History Bldg., Univ. of Ill., Urbana, Ill.

Paige, Mildred M., A.M., A.B. 1914 Bates; not employed; H. 20 Salisbury St., Manchester, N. H.

Peterson, Alice H., A.M., Sc.B. 1926 Skidmore; school psychometrist; B. Board of Education, 13 Elizabeth St., Utica, N. Y., H. Victory Mills, N. Y.

Ripley, Mabel, A.M., B.Ed. 1926 Ill. State Normal Univ.; Western State Teachers

Coll., Kalamazoo, Mich.

Schwendeman, Joseph R., A.M., Sc.B. in Ed. 1926 Ohio Univ.; dept. geography; B. Univ. of Minneapolis, Minneapolis,

Shalloo, Jeremiah P., A.M.†
Sullivan, Catherine E., A.M., A.B. 1926 Smith Coll.; 7 Morton St., Apt. 4. N. Y. C.

Tupper, Eleanor, A.M., Ph.D. 1929, A.B. 1926 Brown Univ.; teaching history and geography; B. Lindenwood Coll., St. Charles, Mo., H. 45 Harvard St., Worcester, Mass.

Weber, J. Henry, A.M.† Weed, Bester C., A.M.†

#### B.Ed.

Christenson, Mildred E., B.Ed.; student, Hart Semin. Foundation, sailing for India, Nov. 1930; H. 8 Beckman St., Worcester, Mass.

Forsythe, Marion B., B.Ed., A.M. 1927; supervisor geography; B. State Normal Sch., Potsdam, N. Y., H. Waddington, N. Y.

Hobson, Maude A., B.Ed.; teacher commercial and industrial geography; B. Chaney H. S., Youngstown, Ohio, H. 165 Regent St., Youngstown, Ohio.

Maher, Margaret E., B.Ed.; teacher (grade 8); B. Elizabeth St. School, Worcester, Mass., H. 741 Pleasant St., Worcester, Mass.

McQueeny, Theresa F., B.Ed., A.M. 1930; H. 35 Westminster St., Worcester, Mass.

O'Connor, Delia G., B.Ed.; teacher, High School for special classes; B. Ledge St. Sch., Worcester, Mass., H. 13 School St., Spencer, Mass.

Shrager, Arthur M., B.Ed.†
Tausch, Mrs. Anne E., B.Ed.; Kenmore, Ohio.

Ph.D.

Allen, Mary Kibbe, Ph.D.† Armitage, Frank G., Ph.D.†

Bengtson, Nels A., Ph.D., B.Ed. 1906 State Teachers Coll., Peru, A.B. 1907 and A.M. 1908 Univ. of Nebr.; chairman dept. geography; B. Univ. of Nebr., Lincoln, Nebr., H. 1919 E St., Lincoln, Nebr.

Cooper, Clyde E., Ph.D., A.B. 1916 and Sc.M. 1917 Univ. of Mich.; prof. geography and geology; Box 385, Athens, Ohio.

Farnsworth, Albert, Ph.D.†

Gilbert, Ralph W., Ph.D.† Heath, Charles O., Ph.D., B.S.H. 1917, Cornell, M.H. 1924 International Y. M. C, A.; dept. economics; Penn. State Coll.,

State College, Pa.

Ku, Te Ming, Ph.D., A.B. 1924 Johns Hopkins Univ., A.M. 1925 Columbia Univ.;
H. Apt. 56, 557 West 124th St., N. Y.
C., Permanent H. 28 Chiu Tsu Hutung, Peiping, China.

Liggett, John R., Ph.D.† Merrow, Curtis H., Ph.D.† Nafe, Robert W., Ph.D.†

vard Univ., Sc.M. 1903 and A.M. 1925 Harvard Univ.; B. Coll. of the City of Detroit, Detroit, Mich. Richards, Gragg, Ph.D.,

Roope, Percy M., Ph.D.;

#### CLASS OF 1928

#### A.B.

Becker, Raymond Carl, A.B.; B. Healey Tourist Agency, Worcester, Mass., H. 560 Chandler St., Worcester, Mass. Bloom, William O., Jr., A.B.; graduate stu-dent Sch. B. A., Harvard Univ.; H. 40 Elm St., Worcester, Mass.

Boyden, Willard E., A.B.; organizing dept.

of music with boys' and girls' glee clubs, teacher English and history, faculty manager of athletics; B. Hickory H. S., Hickory, N. C., H. 805 13th Ave., Hick-

ory, N.C. Carver, Wells E., A.B.; 55 Payson Ave., N.Y.C.

Chase, George B., A.B.; General Motors Acceptance; 307 West 79th St., N. Y. C. Ciano, Michael A., A.B.; 827 E. Main St.,

Waterbury, Conn.

Coty, Everett W., A.B., A.M. 1929; teacher social studies, Mt. Savage H. S.; B. Box 535, Mt. Savage, Md., H. 301 Cambridge St., Worcester, Mass

Cove, Joseph E., A.B., A.M. 1929; graduate student Clark Univ.; H. 5 Taft St., Worcester, Mass.

Dexter, William A., A.B.; asst. principal; High School, Stockbridge, Mass.

Erickson, Franklin C., A.B., A.M. 1930; H. 15 Forestdale Rd., Worcester, Mass. Farrell, Wilfred R., A.B.; teacher and coach; B. Holy Trinity, Ala.; H. 10

State St., Waterbury, Conn.

Felt, Charles W., A.B.; Liberty Mutual Insurance Co., H. Northboro, Mass.

Goss, George L., A.B.; on staff, general commercial manager, Long Island Area, N. Y. Telephone and Telegraph Co.; B. 81 Willoughby St., Brooklyn, N. Y., H. 1810 Cortelyou Rd., Brooklyn, N. Y. Hickey, Thomas J., Jr., A.B.; 1018 Park Pl., Brooklyn, N. Y.

Howard, J. Philip, A.B.; teacher, history and economics, also debating coach; B. Watertown H. S., Watertown, Conn., H. Warren Way, Watertown, Conn., Permanent H. Hubbardson, Mass.

Johnson, Robert E., A.B.; economic staff statistician, study of business conditions and business forecasting; B. N. Y. Telephone Co., 140 West St., N. Y. C., H. 6924 70th St., Middle Village, L. I., N. Y.

Jones, Lloyd C., A.B.; salesman with Spencer Trask & Co., investment bankers; B. 50 Congress St., Boston, Mass., H. 9 Ivy St., Boston, Mass.

Kraemer, Irving, A.B.; teaching; Cornwall, N. Y.

Laakso, Eino F., A.B.; teacher, civics, English and American history; B. Wheeler Sch., N. Stonington, Conn.

Lehnert, Frederick O., A.B.; graduate stu-Yale Univ.; H. 461 Howard Ave., New Haven, Conn.

MacGeoch, John B., A.B.; sales dept. (correspondence and detail); B. Vellumoid Co., 54 Rockdale St., Worcester, Mass., H. 75 West St., Worcester, Mass.

Master, Moses, A.B.; insurance (under-

writing); H. c/o Gordon, 1915 Daily Ave., Bronx, N. Y

Mills, Frederick T., A.B.; 129 Austin St.,

Worcester, Mass

Peterson, Ernest G., A.B., A.M. 1929; research chemist; B. Hercules Powder Co., Kenvil, N. J., H. Hercules Tech. Club, Kenvil, N. J.

Plumb, Philip H., AB.; Litchfield, Conn. Rich, George B., A.B.; teacher: Fort Fair-

field, Me.

Rothman, Theodore, A.B.; 1111 Union

Ave., Bronx, N. Y.

Sanger, Quintin M., A.B.; student at Columbia Univ. working for A.M. degree in government, 1930; H. Livingston Hall, Room 429, Columbia Univ., N. Y. C.

Smith, Abraham, A.B.; student at Harvard Univ.; H. 54 Lawrence St., Fitch-

burg, Mass.

Spadola, John M., A.B., A.M. 1929; research chemist; B. Calco Chemical Co., Bound Brook, N. J., H. 301 East High St., Bound Brook, N. J.

Sullivan, John J., A.B.; 2 Wyman St.,

Worcester, Mass.

Tatham, Stanley J., A.B.; 83 Parson Blvd., Flushing, L. I., N. Y. Tomajan, Russell, A.B.; H. 272 Burncoat

St., Worcester, Mass. Whiting, Stanley H., A.B., A.M. 1929; research chemist, work consists of investigation of chemical problems concerning plant production; B. Calco Chemical Co., Bound Brook, N. J., H. Box 122, Bound Brook, N. J.

Wilder, Frank W., A.B., A.M. 1929; chemist in research laboratory; B. Calco Chemical Co., Bound Brook, N. J., H. 301 East High St., Bound Brook, N. J.

A.M.

Addicott, Harold B., A.M., A.B. 1924 Ohio Univ.; instr. geography and agriculture, State Teachers Coll., Mayville, N. D.; H. 55 Elmwood Pl., Athens, Ohio.

Anderson, S. Axel, A.M., A.B. 1927 Upsala Coll.; instr. economics; B. Upsala Coll., East Orange, N. J., H. 69 Prospect St., Orange, Mass.

Baxter, John F., A.M., A.B. 1927 Holy Cross Coll.; H. 44 Sagamore Rd., Worcester, Mass.

Bell, Ruth E., A.M., A.B. 1927 Washburn Coll.; graduate student, Boston Univ.;

928 Kansas Ave., Topeka, Kans. Carey, Gertrude M., A.M., Sc.B. in Ed. 1925 Boston Univ.; teacher; B. Marlboro H. S., Marlboro, Mass., H. 31 Gibbon St., Marlboro, Mass.

Collamore, Edna A., A.M.† Crawford, Harold H., A.M., A.B. 1927 Io.

Wesleyan Coll.; Gen. Staff, New York Telephone Co.; 28 Argyle Rd., Brooklyn, N. Y.

Crook, Mason N., A.M., Ph.D. 1930, A.B.

1925 Marietta Coll.; H. Poolesville, Md. Cunningham, Floyd F., A.M., Ph.D. 1930, B.Ed. 1926 Ill. State Normal Sch.; prof. and head of dept. geography; B. State Teachers Coll., Florence, Ala., H. Striplin Hall, Florence, Ala.

Dennis, Wayne, A.M., Ph.D. 1930, A.B. 1926 Marietta Coll.; asst. prof. psychology; B. Univ. of Va., University, Va., H. 33

Faculty Apts, University, Va.

Dow, Richard B., A.M. Eagan, Henry F., A.M.† Graham, Clarence H., A.M.†

Haines, Charles G., A.M., A.B. 1927 Ursi-

nus; graduate student history, Clark Univ.; 11 Clement St., Worcester, Mass. Hanratta, Anna, A.M., A.B. 1923 Central State Teachers Coll.; H. St. Johns, Mich. Hidy, Ralph W., A.M., A.B. 1926 Miami Univ.; teaching; B. Norwich Univ., Northfield, Vt., H. Box 201, Northfield, Vt.

Vt.

Hidy, Mrs. Ralph W. (Wagenhauser, Muriel), A.M., A.B. 1927 Univ. of British Columbia; Norwich Univ., Northfield, Vt.

Hogan, Frances H., A.M., A.B. 1927 Boston Univ.; teacher; B. St. Mary's Coll., Notre Dame, Ind.

Holmes, Kenneth B., A.M., Ph.B. 1927 Wesleyan; student; B. Boston Univ. Theol.

Sch., Boston, Mass.

Holzhauer, Carl F., A.M., A.B. 1926 Coll. of the City of Detroit; teacher geography; B. Northeastern H. S., Detroit, Mich., H. 5409 Helen Ave., Detroit, Mich.

Hoyt, Edith E., A.M., A.B. 1926 Marietta Coll.; teacher geography; B. Bowling Green, Jr. H. S., Bowling Green, Ohio, H. 241 S. Church St., Bowling Green, Ohio.

Huang, Yu-Jung, A.M., A.B. 1924 Yenching Univ. (China); instr. geography; B. Dean's Residence, Yenching Univ., Peiping, China; H. 17 Tung Tan Erk Tiao, Peiping, China.

Lee, Harriet E., A.M., A.B. 1927 Cornell Univ.; instr. geology; B. Wellesley Coll., Wellesley, Mass., H. Dundee, N. Y.

Leeper, Robert W., A.M., Ph.D. 1930, A.B. 1925 Allegheny Coll.; H. Box 96, Terrace, Pa.

Lloyd, George W., A.M., B.H. 1924 Springfield; 1121 New Hampshire Ave., Washington, D. C.

Mitchell, May A., A.M., A.B. 1917 Iowa State Teachers Coll.; asso. prof. geography; 1603 Avenue J., Huntsville, Tex.

Munn, Norman L., A.M., Ph.D. 1930, Sc.B.

B. Ed. see por.

1927 Springfield Coll.; asst. prof. psychology; B. Univ. of Pittsburgh, Pittsburgh, Pa., H. 5620 Hobart St., Pittsburgh, Pa.

Rucker, Robert W., A.M., B.Ed. 1927 Ill. State Normal Univ.; head of the dept. of geography and natural science; B. State Normal Sch., Hyannis, Mass. Schlesselman, George W., A.M., A.B. 1927 Iowa State Teachers Coll.; prof. geogra-

phy; H. Hillsdale Coll., Hillsdale, Mich. Stone, Robert, A.M., B.P.E. 1923 Springfield Coll.; instr. psychology; B. Lehigh Univ., Bethlehem, Pa.

Tabor, Osborne B., A.M.†

Wagenhauser, Muriel E. (See Hidy, Mrs. Ralph W.).

#### B.Ed.

Brown, Virginia M., B.Ed.; teacher geography; B. E. Warner Jr. H. S., Wilmington, Del., H. 605 Hillcrest Ave., Wilmington. Del.

Callahan, Mary M., B.Ed.; posture training and corrective work; B. Worcester Public Schools, Worcester, Mass., H. 93

Elm St., Worcester. Mass.

Hall, Florence E., B.Ed., A.M. 1929 St. Lawrence Univ.; teacher, physical geography; B. Watertown H. S., Watertown, N. Y., H. 321 Prospect St., Watertown, N. Y.

Johnson, Olga A., B.Ed.; principal; B. Blithewood Sch., Worcester, Mass., H. 9 Falmouth St., Worcester, Mass.

Lincoln, Elisabeth M., B.Ed.; supervisor in public schools; 226 Union St., Leo-minster, Mass.

Murphy, Theresa M., B.Ed.; instr. general science; B. Wm. Wilson Jr. H. S., Mt. Vernon, N. Y., H. 184 Archer Ave., Mt. Vernon, N. Y.

Silk, Ellen M. Howard, B.Ed.; geography instr.; B. Jr. H. S., Spencer, Mass., H. 15 Bell St., Spencer, Mass.

Stanton, Cora A., B.Ed.; teacher, grade VI; B. Abbott St. School, Worcester, Mass., H. 12 Winslow St., Worcester, Mass.

Wilmouth, Irene F., B.Ed.; 31 Lovell St., Worcester, Mass.

Yerkes, Warren A., B.Ed.; High School, Leroy, N. Y.:

#### Ph.D.

Atwood, Rollin S., Ph.D.;

Eksergian, Rupen, Ph.D., Sc.B. 1914 and Sc.M. 1915 M. I. T., Sc.M. 1915 Harvard Univ.; consultant-engineering dept.; B. E. I. duPont de Nemours, Wilmington, Del., H. 23 Owen Ave., Lansdowne, Pa. Geldard, Frank A., Ph.D.;

Meyer, Leo J., Ph.D., A.B. 1921 and M.H. 1924 Wesleyan Univ.; teacher, history, United States, Spain, Latin America; B. New York Univ., N. Y. C., H. Yorkview, Norwood, N. J. Shipman, Julia M., Ph.D.†

Van Royen, William, Ph.D., grad. 1926 Univ. of Utrecht (Holland), B. Chamber of Commerce of the Netherlands, 32 Broadway, N. Y. C., H. 127 Silver Lake Rd., L. I., N. Y.

#### CLASS OF 1929

#### A.B.

Adams, Hobart W., A.B.; student Harvard Univ.; B. Sch. of B. A. Harvard Univ., Cambridge, Mass., H. 77 W. Central St.,

Natick, Mass.

Backlin, Everett E., A.B.; teacher Spanish and Greek; B. Lawrence Academy, Groton, Mass., H. 9 Euclid Ave., Worcester,

Mass.

Bailey, Irving E., A.B.; clerk, Worcester Bank & Trust Co.; B. 16 Franklin St., Worcester, Mass., H. 29 West St., Wor-

cester, Mass.
Belanger, Leonard J., A.B.; order clerk, stock brokerage; B. 1895 University Ave., N. Y. C., H. 47 Louisiana Ave., Long Beach, L. I., N. Y. Bland, Isadore C., A.B., A.M. 1930, H. 69 Quaker Lane, West Hartford, Conn. Briggs Beginneld, A. R. A.M. 1930, H.

Briggs, Reginald A., A.B., A.M. 1930; H. 7 Dewey St., Worcester, Mass. Britton, Jacob, A.B.; instr. engin. mathe-

matics, also graduate work for Ph.D.;
B. Univ. of Colo., Boulder, Colo., H.
1005 12th St., Boulder, Colo.
Butler, Richard W., A.B.; clerk; B. Henry
L. Doherty Co., 60 Wall St., N. Y. C.,
H. 220 West 107th St., N. Y. C.
Carlson, Albert S., A.B.; instr. geography;
B. Dept. of Geog., Dartmouth Coll.,
Hanover, N. H., H. 137A Eastern Ave.,
Worcester, Mass. Worcester, Mass.

Coffyn, Kingsland A., A.B.; graduate student, Harvard Univ.; B. Geological Mu-

seum, Harvard Univ., Cambridge, Mass., H. 131 East 93rd St., N. Y. C. Dahl, Randle E., A.B., broker's clerk, clearing house dept., B. J. H. Oliphant & Co., 61 Broadway, N. Y. C., H. 1204 St. Johns Pl., Brooklyn, N. Y.

Deeks, William T., A.B.; floorman; B. W. T. Grant Co., Omaha, Nebr.

Duesel, Bernard F., A.B., A.M. 1930; H. 65 Stafford St., Worcester, Mass.

Farrell, Albert L., A.B.; 6 Beaverbrook Pkwy., Worcester, Mass.

Fryer, Francis L., A.B.; 42 Prescott St., Worcester, Mass.

Geary, Donald J., A.B.; school teacher; 19 Pleasant Pl., Leominster, Mass. Gervais, Roland E., A.B.; instr. modern

languages; B. Worcester Polytechnic Institute, Worcester, Mass., H. 17 Hamp-den St., Worcester, Mass. Goldberg, Milton H., A.B.; student Har-

vard Univ. business school; H. 27 Marion

Ave., Worcester, Mass.

Goldman, Nathan, A.B., A.M. 1930; H. 9 Lamar Ave., Worcester, Mass.

Grace, Sydney, A.B., A.M. 1930; H. 30 S. Lenox St., Worcester, Mass. Haberman, James C., A.B.; Law Sch., Northeastern Univ.; H. 68 Forest Park Ave., Springfield, Mass.

Harrington, Wayne E., A.B.; salesman, Bradley and Scoville, office outfitters; tenor soloist at Trinity Church; H. 48 Bishop St., East Haven, Conn.

Hartman, Raymond P., A.B.; clerk; B. American Salpa Corp., N. Y. C.; H. 14

Larch St., Worcester, Mass.

Hastings, Walter, Jr., A.B.; teacher; B. Williston Academy, Easthampton, Mass., H. 29 Mechanic St., Webster, Mass.

Hillman, Owen N., A.B.; graduate student, Brown Univ.; 63 Charles Field St., Providence, R. I.

Hubbard, Arthur D., A.B.; 555 E. Main St., Meriden, Conn.

Hughes, Hartwell M. T., A.B.; 34 Clark

St., Worcester, Mass.

Kaneb, Albert J., A.B.; student, Harvard Univ. Law Sch.; H. 40 Sacramento St., Cambridge, Mass.

Kennedy, Melvin D., A.B., A.M 1930; H. 17 Orchard St., Worcester, Mass.

Klingele, Arnold H., A.B.; 152 West St.,

Worcester, Mass.

Kneller, George F., A.B.; teacher, modern languages; B. Wilbraham Academy, Wilbraham, Mass.

Kremer, Abraham, A.B.; 61 Marlborough St., Lowell, Mass.

Levett, Abraham, A.B.; Northford, Conn.‡ Lippincott, Stuart W., A.B.; graduate student and asst. dept. physiology, Mass. Agricultural Coll.; 84 Pleasant St., Amherst, Mass.

Lukens, Frank N., A.B.; B. E. W. Clark & Co., (private bankers); B. 16th and Locust St., Philadelphia, Pa., H. 204 East Union St., Burlington, Vt.

Luvisi, Fred P., A.B., A.M. 1930; H. 49 Suffolk St., Worcester, Mass.

Mansur, Lawrence C., A.B.; H. 530 Park Ave., Worcester, Mass.

Mettler, Fred A., A.B.; Cornell Medical Sch., N. Y. C.

Niman, William A., A.B.; 1014 Avenue N., Brooklyn, N. Y

O'Neill, John A., A.B.; Farnumsville, Mass. Pollock, Morris, A.B.; 77 Arlington St., Lawrence, Mass.

Quinn, James, A.B.; H. 93 Cutler St., Worcester, Mass.
Raphael, Ralph, A.B.; 8 Ashmont Ave.,

Worcester, Mass.

Ringoen, Andrew T., A.B.; advertising solicitor; 41 Wachusett St., Worcester,

Scott, Allan C., A.B.; grad. asst. in zoology in Univ. of Pittsburgh Jr. Coll. at Johnston, Pa.; B. Zoology Dept., Univ. of Pittsburgh, Pittsburgh, Pa.

Shanahan, Raymond P., A.B.; agent for New York Telephone Co.; B. 140 West St., N. Y. C., H. 161 W. 105th St., N.

Sherman, David, A.B., A.M. 1930; H. 19 Blossom St., Worcester, Mass.

Silverman, David, A.B.; H. 25 Woodford

St., Worcester, Mass.
Slate, Robert I., A.B.; Bernardston, Mass. Smith, Benjamin, A.B.; accountant; B. Price-Waterhouse, Auditing Firm, 56 Pine St., N. Y. C., H. 220 W. 107th St., Apt. 63, N. Y. C. Stewart, Walter G., A.B., A.M. 1930; H. 19 Kingsbury St., Worcester, Mass.

Ten Broeck, Edward M., A.B.; associated with Springfield Union; 95 Chestnut St., Springfield, Mass.

Welson, Milton K., A.B.; 42 Westfield Rd., Holyoke, Mass.

Zumpfe, Leroy C., A.B.; 19 Myrtle Ave., Webster, Mass.

#### A.M.

Andress, Allen E., A.M., A.B. 1925 Doane Coll.; instr. dept, of economics, Lafayette Coll.; H. 321 Cattell St., Easton, Pa.

Avery, Mrs. Eula V., A.M., A.B. in Ed. 1925 Univ. of Mich.; teacher geography; B. Tappan Jr. H. S., Ann Arbor, Mich., H. 1123 Michigan Ave., Ann Arbor, Mich.

Baralt, Jose Lopez, A.M., A.B. 1928 Univ. of Porto Rico; instr. history; B. Univ. of P. R., Rio Piedras, P. R., H. Stop 26, Santurce, P. R.

Conrad, Harold E., A.M., A.B. 1927 Brown Univ.; head history dept.; B. Urbana Univ., Urbana, Ohio.

Coty, Everett W., A.M.;

Cove, Joseph E., A.M.; Dix, Charles T., A.M.†

Dymond, Emily, A.M., A.B. 1923 Wellesley Coll.; teacher; 14 Beaconsfield Rd., Worcester, Mass.

Fitton, Edith M., A.M., A.B. 1924 Smith

Coll.; geography research assistant; B. Clark Univ., Worcester, Mass.

Garnsey, Morris E., A.M., A.B. 1928 Drury Coll.; c/o American Univ. Union, 173 Blvd. St. Germain, Paris, France.

Glasgow, James, A.M., B.Ed. 1928 Ill. State

Normal Univ.; publishers; B. McKnight and McKnight, Bloomington, Ill., H. 204 N. Fell Ave., Normal, Ill.

Healey, Josephine E., A.M., A.B. 1928 Rad-cliffe Coll.; 3 Maywood Pl., Worcester,

Mass.

Huffngton, Paul, A.M., B.Ed. 1924 State Normal Univ.; head of geography dept.; B. State Normal Sch., Bridgewater, Mass., H. 104 South St., Bridgewater, Mass.

Jefts, Lillian, A.M., A.B. 1910 St. Lawrence Univ.; 100 Acushnet Ave., Worcester,

Mass.

Keller, Lois R., A.M., Sc.B. 1925 Ohio State Univ.; teacher, geography; B. Onaway Jr. H. S., Shaker Heights, Ohio, H. 3098 Berkshire Rd., Cleveland Heights, Ohio. Lindley, Lester C., A.M., A.B. 1927 Ind. Univ.; Union City, Ind.

Means, Margaret, A.M., B.Ed. 1925 Ill. State Normal Univ.; teacher geography; B. Bloomington H. S., Bloomington, Ill., H. 602 S. Clayton St., Bloomington, Ill.

McDavitt, Neva, A.M., B.Ed. 1925 Ill. State Normal Univ.; instr. nature study and geography; B. Ill. State Normal Univ., Normal, Ill., H. Monticello, Ill.

Peterson, Ernest G., A.M.†

Schwieger, Albert J., A.M., A.B. 1928 Hamline Univ.; instr. economics; B. Univ. of

N. Dak., Grand Forks, N. Dak.

Silverman, Yetta, A.M., A.B. 1928 Hunter Coll.; asst. psychologist (testing and remedial teaching); B. Brooklyn Ethical Culture Sch., 49 Prospect Park West, Brooklyn, N. Y., H. 1336 54th St., Brook-lyn, N. Y.

Spadola, John M., A.M.† Swan, Paul R., A.M.†

Vinal, Ella L., A.M., Sc.B. 1928 Colby Coll.; executive secretary of the Inter-racial Council of Worcester; B. Y. W. C. A., Worcester, Mass., H. N. Scituate, Mass. Wheeler, Alfred H., A.M., A.B. 1928 Colgate Univ.; 139 Woodland Ave., Gardner, Mass.

Whiting, Stanley H., A.M.† Wilder, Frank W., A.M.†

B.Ed.

Curley, Elizabeth G., B.Ed.; teacher, Worcester Jr. H. S.; H. 1 Lucian St., Worcester, Mass.

Daley, Kathrine M., B.Ed.; teacher, Jr. H. S.; H. 6 Mendon St., Worcester, Mass.

Gerard, Wilhelmina, B.Ed.; sub-normals, 7th and 8th grades; B. School No. 1, Elmira, N. Y., H. 207 Grove St., Elmira,

N. Y.

Harris, Marion V., B.Ed.; teacher, Worcester Public Schools; H. Millbury,

Johnson, Hilda V., B.Ed.; teacher; H. 9 Falmouth St., Worcester, Mass. Kirby, Margaret V., B.Ed.; teacher; B. Jr. H. S., Worcester, Mass., H. 38 Shirley St., Worcester, Mass.

Matteson, Estella, B.Ed.; teacher; 19 Central Ave., Oneonta, N. Y.

tral Ave., Oneonta, N. Y.

Pasanen, Walter R., B.Ed.; teacher, High
School; 753 Park Ave., Auburn, R. I.

Payne, Arvella, B.Ed.; teacher geography B. Jr. H. S., Middletown, N. Y., H. 37 Knapp Ave., Middletown, N. Y. Regan, Ellen F., B.Ed.; 38 Sterling St.,

Worcester, Mass.

West, Anthony J., B.Ed., A.M. 1930; H. 8 Barclay St., Worcester, Mass.

Ph.D.

Barnes, Carlton P., Ph.D.†
Baugh, Ruth E., Ph.D.†
Cross, Hartley W., Ph.D.†
Ewert, P. Harry, Ph.D., A.B. 1922 Southwestern Teachers Coll., A.M. 1925 Univ. of Kans.; asso. prof. psychology; B. Univ. of Vt., Burlington, Vt., H. 407 College St., Burlington, Vt.
Freeman, Otis W., Ph.D., A.B. 1910 Albion, Sc.M. 1913 Univ. of Mich.; prof. geogra-

Sc.M. 1913 Univ. of Mich.; prof. geography, State Normal Sch., Cheney, Wash.

Gooze, Charles, Ph.D.† Harden, Luberta M., Ph.D.† Johannsen, Dorothea E., Ph.D.† Koeppe, Clarence E., Ph.D.† LeFleur, Albert, Ph.D.;

MacGregor, Rob Roy, Ph.D., A.B. 1924 and A.M. 1926 Southern Methodist Univ.; prof. history; B. Ill. Woman's Coll., Jacksonville, Ill., H. 197 Prairie St., Jacksonville, Ill.

Page, John L., Ph.D.;

Prator, Moina, Ph.D., Sc.B. 1914 and Sc.M. 1918 Univ. of Chicago; asst. prof. geography; B. Marshall Coll., Huntington, W. Va., H. 1223 Fifth Ave., Huntington, W. Va.

Tupper, Eleanor, Ph.D.†

#### CLASS OF 1930

A.B.

Abelsky, Michael, A.B.; 63 Houghton St., Worcester, Mass.

Barber, William P., A.B.; H. 245 School St., Putnam, Conn.

Brady, Edward W., A.B.; H. 162 Adams St., Leominster, Mass.

Christensen, Thomas E., A.B.; H. 10 Lancaster St., Worcester, Mass. Crowley Paul M., A.B.; H. 252 Chestnut

St., New Bedford, Mass.

Davis, Harry, A.B.; H. 49 Eaton St., Providence, R. I.

Dickey, Robert I., A.B.; H. 5 Winter St., Merrimac, Mass.

Dobie, Albert J., A.B.; H. 12 Bay State Rd., Worcester, Mass.

Dolan, Robert A., A.B.; H. 92 Francis St., Marlboro, Mass.

Donahue, Michael A., A.B.; H. 161 Institute Rd., Worcester, Mass.

Eliason, Chester G., A.B.; H. Ridge Rd., North Haven, Conn.

Erickson, Albert C., A.B.; H. 35 Olga Ave., Worcester, Mass.

Feinsilver, Oscar, A.B.; H. 57 South St., Worcester, Mass.

Foxhall, Harry, A.B.; H. Elm St., Shrewsbury, Mass.

Harding, Kenneth C., A.B.; H. 457 Park Ave., Worcester, Mass.

Higginbottom, George, A.B.; H. Millbury,

Mass.

Hollis, Walter, A.B.; H. Charlton, Mass.

Jacobs, David H., A.B.; H. 144 Miller St.,

Meriden, Conn. **Johnson, Edwin N.,** A.B.; H. Box 327,

Georgetown, Conn. Kenworthy, Philip W., A.B.; H. 921 Sum-

mer Ave., Springfield, Mass.

Kutukchieff, Ivan I., A.B.; H. c/o W. S.
Monroe, Couching Lion Farm, Waterbury, Vt.

Larkin, Charles A., A.B.; H. Route No.

30, Stamford, Conn.

Levenson, Samuel, A.B.; H. 106 Salem St., Worcester, Mass.

Levine, Robert, A.B.; H. 1148 East 10th St., Brooklyn, N. Y.

Levitz, Aaron, A.B.; H. Box 523, St. John's, Newfoundland.

Mahony, Richard R., A.B.; H. 60 Florence St., Worcester, Mass.

Marchant, William E., A.B.; H. Hudson, Mass.

Mattson, Arthur E., A.B.; H. 17 Crown St., Danbury, Conn.

Moberg, Edgar A., A.B.; 1 Daguerre St., Worcester, Mass.

Moore, Jonathan F., A.B.; H. 112 Paine St., Worcester, Mass.

Murdock, Frederick M., A.B.; H. West Boylston, Mass.

Peltier, Charles L., A.B.; H. 651 Main St., Dalton, Mass.

Pitkin, Victor E., A.B.; H. Marshfield, Vt. Read, Francis A., A.B.; H. 35 Locust Ave., Danbury, Conn.

Rogers, Harry, A.B.; H. 126 Bridge St., Fairhaven, Mass.

Roy, Joseph L., A.B.; H. Main St., Webster. Mass.

Schonning, Carl E., A.B.; H. 76 Whipple St., Worcester, Mass.

Scott, John H., A.B.; H. 804A Main St., Worcester, Mass.

Slade, Frank D., A.B.; H. Pearl River, N. Y.

Sleeper, Samuel, A.B.; H. 59 Vale St., Worcester. Mass.

Snell, Silvanus H., A.B.; teacher; B. High School, Sutton, Mass., H. 50 Chapin St., Southbridge, Mass.

Solomon, Harry D., A.B.; H. 17 La Grange St., Worcester, Mass.

Southwick, Thomas E., A.B.; H. Leicester, Mass.

Spaulding, Charles C., A.B.; H. 1006 Fayetteville St., Durham, N. C. Stedman, Harry P., A.B.; H. 19 Isabella

St., Worcester, Mass. Stevens, Frank P., A.B.; 8 Lawrence St., Worcester, Mass

Ussher, Sydney R., A.B.; student, Yale Divinity Sch.; H. 40 May St., Worcester, Mass.

Whitman, Samuel M., A.B.; H. 26 Woodford St., Worcester, Mass.

Wiel, Theodore A., A.B.; 94 Lovell St., Worcester, Mass.

Williams, William L., A.B.; H. Williams-ville, Vt.
 Wilson, Frank E., A.B.; H. Warren, Mass.

Winter, O. Frederick, A.B.; H. 15 Reservoir St., Worcester, Mass.

Winton, Hildreth T., A.B.; H. Curtis Place, Stratford, Conn.

Wordell, Everett J., A.B.; H. Portsmouth, R. I.

#### A.M.

Ashworth, Jessie E., A.M., A.B. 1929 Univ. of Me.; H. 88 North Main St., Orono, Me. Blackwell, George L., A.M., A.B. 1929 Drury Coll.; H. 909 Fourth St., Monett, Mo. Bland, Isadore C., A.M.†

Blomstrom, Lillian S., A.M., Sc.B. 1929 Boston Univ.; H. 19 Coventry Rd., Worcester, Mass.

Boyle, Thomas E., A.M., A.B. 1918 Holy Cross Coll.; H. 57 Sagamore Rd., Worcester, Mass.

Briggs, Reginald A., A.M.†

Chapin, Lucy E., A.M., A.B. 1929 Colby Coll.; H. 5 Leyden Rd., Greenfield, Mass.

Clarke, Katharine B., A.M., Sc.B. 1926 Northwestern Univ.; H. Harbor Springs, Mich.

Duesel, Bernard F., A.M.†

Edman, Victor R., A.M., A.B. 1923 Boston Univ.; H. 1654 Euclid Ave., Chicago Heights, Ill.

Erickson, Franklin C., A.M.† Goldman, Nathan, A.M.;

Grace, Sydney, A.M.;

Gregory, Elizabeth E., A.M., A.B. 1929 Coll. for Women, Western Reserve Univ.; H.

2458 Queenston Rd., Cleveland, Ohio. Hackett, Freeman K., A.M., Th.B. 1928 and B.D. 1929 Gordon Coll. of Theol.; H. 192 Vernon St., Worcester, Mass. Haines, George H., A.M., A.B. 1927 Ursi-

nus; H. Abbottstown, Pa.

Hutter, Harry K., A.M., A.B. 1925 Muskingum Coll.; H. Waterman, Ill.

Kendall, Gerald M., A.M., A.B. 1927 Colgate Univ.; H. 38 Oberlin St., Worcester, Mass.

Kennedy, Melvin D., A.M.†

Laing, Lionel H., A.M., A.B. 1929 Univ. of British Columbia; H. 1122 Ormond

St., Victoria, B. C., Canada.

Lundgren, Evelyn C., A.M., Sc.B. in Ed. 1925 Worcester State Normal; H. 6 Farnum St., Worcester, Mass.

Luvisi, Fred P., A.M.

McQueeny, Theresa F., A.M.†

Olson, Dorothy M., A.M., A.B. 1929 Hunter Coll.; 1212 Ellsworth Ave., N. Y. C. Powell, Katharine A., A.M., A.B. 1926 Goucher Coll.; 113 West Lauvale St.,

Baltimore, Md.

Sherman, David, A.M.† Spence, Vina E., A.M., A.B. 1929 Mount

Holyoke Coll.; H. 17 Southwick St., Chicopee Falls, Mass. Stewart, Walter G., A.M.† Thomas, Raymond C., A.M., A.B. 1929

Bethany Coll.; H. 54 Wade Ave., Buffalo,

Turbeville, Harry E., A.M., A.B. 1929 Penn. Coll.: H. 209 N. Market St., Oskaloosa,

West, Anthony J., A.M.† Zeller, Rose, A.M.†

Ph.D.

Atwood, Wallace R., Ph.D.† Burgy, J. Herbert, Ph.D., A.B. 1920 and A.M. 1925 Univ. of Wis.; asso. prof. geography; B. Univ. of Ill., Urbana, Ill.

Burrill, Meredith F., Ph.D.; Crook, Mason N., Ph.D.; Cunningham, Floyd F., Ph.D.†

Dennis, Wayne, Ph.D.†

Gellerman, Louis W., Ph.D., A.B. 1922 and A.M. 1928 Univ. of Wash.; H. 5261 18th St., N. E., Seattle, Wash.

Graham, Clarence H., Ph.D.†

Hudgins, Bert, Ph.D., B.Ed. 1915 Ill. State Normal Univ., Sc.M. 1921 Univ. of Chicago; prof. geography and head dept.; B. Coll. of the City of Detroit, Detroit, Mich., H. 2515 Highland Ave., Detroit, Mich.

Leeper, Robert W., Ph.D.† Munn, Norman L., Ph.D.† Perkins, Ernest R., Ph.D.+

# GEOGRAPHICAL LISTS

# UNITED STATES

#### ALABAMA

Florence '28 Cunningham, Floyd F.

University '07 Hill, David S.

# ARIZONA

Flagstaff

'25 Tinsley, William W.

Fort Defiance

'13 Beckwith, Walter L.

Phoenix

'09 Boynton, Clarence N.

# ARKANSAS

Little Rock

'12 Radley, Edward T.
'11 White, Ernest H.

Mena

'16 Zeuch, William E.

#### CALIFORNIA

Berkeley

'17 Knight, Melvin M. '18 O'Neill, Anne W.

Claremont

'15 Douglass, Aubrey A.

'22 Andrew, Paul E.

Eldridge

'08 Ordahl, George '07 Ordahl, Mrs. George

Glendale

'99 Croswell, Thomas R.

Hollywood

'05 Easley, Philip A.

'05 Gowen, Benjamin S. '23 Thomajan, Puzant K.

Huntington Park

'09 Kaylor, M. Albertus

Long Beach

'15 Albert, Harry

Los Angeles

'06 Baldwin, Francis M.

'26 Baugh, Ruth E. '08 Beeson, William J. '13 Fisher, Sara C.

'08 Hubbard, Edward, Jr.
'26 Liggett, John R.

'13 Van Waters, Miriam

'25 Varney, Burton M.
'05 Waddell, Charles W. '13 Woods, Elizabeth L.

Palo Alto '96 Slonaker, James R.

'17 Boghosian, Hagop B. '20 Michal, Aristotle D.

'08 Wallace, Edith M.

Porterville

'08 Miller, Newton '11 Miller, Mrs. Newton

Redlands '07 Westerberg, Iwar S.

Richmond

18 Burke, Winthrop M.

'21 Zeitfuchs, Edward

San Francisco

'06 Coghlan, Samuel R.

'16 McCrillis, Jacob W. '23 Nash, Mrs. Albertine

San Jose

'13 Freeland, George E.

Stanford University

'00 Moreno, Halcott C. '05 Terman, Lewis M.

Stockton

'08 Harris, James W.

#### COLORADO

Boulder

'29 Britton, Jacob '24 Carlson, Harry G.

Colorado Springs '14 Ellis, Robert S.

23 Fahl, Rudolph '16 Mooney, William B.

Gunnison

'23 Machlan, Louis O.

Longmont

'12 Sanborn, Kent L.

University Park

'98 Phillips, Daniel E.

#### CONNECTICUT

Bantam

'22 Hard, Ernest

Bridgeport

'19 Brodsky, Michael E.

'21 Martinson, John W. '27 Moore, J. Robert '19 Pearson, Mrs. Charles

W.

'16 Sturges, Harold M.
'23 Towne, Stanwood

B. E.

Chester

'25 Gladding, G. Roger

Colchester

'24 Jacob I.

Danbury

30 Mattson, Arthur E.

'30 Read, Francis A.

Danielson

'12 Atwood, Harold B. '12 Gaylord, Harding W.

Deep River

'11 Tourville, Bertram

Derby

'23 Heffernan, Daniel J.

East Haven

'29 Harrington, Wayne E.

Georgetown

'30 Johnson, Edwin N.

Hampton

'14 Muttart, William L.

Hartford

'11 Arnold, Ray D.

'23 Buxton, Kenneth S. '13 Chester, Edward P.

'10 Fay, William J.

'20 Goodnow, Donald W.
'18 Hillman, Samuel I.
'22 Loomis, Theodore R.

'05 Madden, Leon I.

'11 Moyle, Henry B.

'12 Oberg, Frank T.
'18 Parks, G. Hapgood

'11 Preston, Harold A.

'22 Rowland, Robert J.

'12 Towne, Ralph V.

Hazardville

'94 Bridge, John L.

Jewett City

'26 Fallstrom, Iver W.

Litchfield

'15 Elliott, Clarence H.

'28 Plumb, Philip H.

Manchester '22 Humes, Warren M. Mansfield '23 Knowlton, Edwin E. Meriden '29 Hubbard, Arthur D. '30 Jacobs, David H. Naugatuck '21 Kunin, Joseph '24 Pope, Henry W. New Britain '23 Howard, Palmer P. '22 Howe, George F. '22 Howe, Mrs. George E. '25 Potts, W. Gerald New Haven 27 Bresev, Morris I. '22 Cheney, Ralph L. '22 Davis, George T. '26 Denny, Nathan J. '06 Gesell, Arnold L. '22 Halverson, Henry '12 Kimball, Ralph G. '22 Krikorian, Arman K. '28 Lehnert, Frederick O. '15 Paine, Merrill P. '26 Preissel, William F. '26 Sachs, Jacob Y '09 Shedd, Clarence P.
'15 Small, Max New London North Haven '30 Eliason, Chester G. North Stonington '28 Laakso, Eino F. Norwalk '13 Lund, John Old Lyme '06 Gibbs, David Plainfield

'22 Schultheiss, Robert C. '16 Townsend, Frank A. '23 Zweigbaum, Abraham '26 Gannon, Thomas C.
'17 Harris, Frank '13 Nathanson, Joseph N. '06 Drowne, George L. Putnam '30 Barber, William P. Seymour '10 Stoddard, Hubert E. South Norwalk '27 Green, Hyman H. Stamford '30 Larkin, Charles A. Stepney '23 Clark, Wendell J.

ALUMNI Stonington '25 Hanover, Walter S. Stratford 30 Winton, Hildreth T. '09 Hughes, John L.
'22 White, Vinton E. Thomaston '27 Keller, Clarence W. Thompsonville '12 Arthur W. Unionville '23 Taylor, Hiram S., Jr. Warehouse Point '06 Evans, William W. Waterbury '28 Ciano, Michael '13 Elwell, William B. '28 Farrell, Wilfred R. '17 Hanson, Frank W.

Watertown '11 Cook, William R.

'28 Howard, J. Philip West Hartford '29 Bland, Isadore C.

West Haven '22 Jones, Sarah E.

Wethersfield '20 Kendall, Raymond O. Willimantic

'11 Shafer, George H.

Windsor '13 Pratt, Aaron P.

# DELAWARE

Claymont '19 Bugdenovich, William '21 Morrison, Arthur B. Newark

'21 Gould, J. Sidney Wilmington

'28 Brown, Virginia M. '28 Eksergian, Rupen '14 Hayden, Oliver M. '23 Neal, Arthur M.

## DISTRICT OF COLUMBIA

Washington '06 Bacon, Charles W. '27 Barnes, Carlton P.
'12 Bemis, Samuel F. '16 Bentley, John E.
'11 Butler, John F. '21 Cooper, Robert U. '12 Dawson, Leo H.

'10 Dickinson, Hobert C.

'16 Dooley, Lucile '05 Harrington, Elmer A.

'14 Henry, Thomas R. '01 Ives, James E. '16 Judson, Lewis V

'28 Lloyd, George W. '16 Long, Howard H. '23 Loughrey, James H.

'16 Lubin, Isador '95 Luckey, George W. A. '17 Miller, Kelly, Jr.

'16 Morlock, George A.
'23 O'Brien, John F.
'16 Parker, Henry C.

'15 Richmond, Winifred

'26 Shields, Hazel D. '00 Small, Willard S. '10 Stimson, Harold F. '16 Sumner, Francis C.

'17 Teachout, Robert B. '16 Ward, Henry P.

'08 Wright, Clarence D. '12 Yanovsky, Elias

# FLORIDA

Coral Gables '10 Howes, Roy Francis Gainesville

'25 Atwood, Rollin S. '97 Lancaster, Ellsworth

Jacksonville

'19 Grether, J. Richard Tallahassee '13 Bellamy, Raymond

'04 Conradi, Edward Tampa

'11 Becknell, Guy G. Winter Park '09 Clarke, Edwin L.

Athens

# **GEORGIA**

'10 Hutchinson, George A. Atlanta

'20 Barr, William J.
'09 Dilts, Howard K. '23 Holmes, Richard M.

'20 Pettit, Effie D. Demorest '13 Percy, C. Lisle

Forsuth '20 Kurtz, Herman F.

# ILLINOIS

Bloomington '29 Glasgow, James '27 Gueffroy, Edna M. '29 Means, Margaret

Carbondale

'23 Shank, Marjorie M.

Chicago

'11 Basnett, Douglas '09 Bivin, George D.

'09 Bobbitt, John F. '09 Bond, Otto F.

'23 Branom, Frederick K. '27 Crane, Mrs. Charles B.

'06 Day, Alexander A. '10 Fletcher, Rollo F.
'20 Frazier, E. Franklin

'05 Haynes, Rowland '19 Hunt, Horace A. '23 Husbands, LeRoy C.

'92 Jordan, Edwin O.
'14 MacLaren, William G.

'21 Noreen, Anton H. R. '17 Pierrel, Gren O. '12 Potter, Herman M.

'22 Rabinov, Isaac '17 Slade, William F.

'22 Stonequist, Everett '12 Tyree, Louis C. '01 Van der Vries, John

'92 Young, J. W. A.

Chicago Heights

'30 Edman, Victor R. East St. Louis

'21 Heiser, Harold W. Evanston

'93 Holgate, Thomas F.
'26 Jodrey, Viola

'22 Williams, Carl A. Flat Rock

'06 Duncan, Frederick N. Jacksonville

'17 Brooks, Elizabeth '29 MacGregor, Bob Roy

Lena '04 Jesse N.

Normal 25 Buzzard, Robert G. '23 Horton, Clifford E. '29 McDavitt, Neva

North Chicago '14 Chandler, Edward

M. A. Springfield

'26 Zeller, Rose Urbana

'30 Burgy, J. Herbert '93 Daniels, Arthur H. '22 Möller, Elizabeth F. '27 Page, John L.

'20 Staley, Seward C. '14 Taft, Donald R.

Waterman

'30 Hutter, Harry K.

Western Springs '15 Wilson, William J.

# INDIANA

Bedford

'24 McKnight, Mrs. Edna H.

Bloomington

'20 Benns, Frank L. '06 Book, William F.

'92 Bryan, William L. '15 Snoddy, George S. '23 Switzer, J. Elmer

Lafavette

22 Alquist, Francis N. '25 Sleeper, L. Maxwell '12 Tetrault, Philippe A.

Mentone

'09 Bruner, Jesse

Merom

'23 Mitchell, Ralph W.

Miller

'15 Hayes, William H.

Muncie

'22 LaFleur, Albert

Notre Dame

'28 Hogan, Frances H.

South Bend '11 DuBois, B. G.

Terre Haute

'10 Acher, Rudolph

Union City

29 Lindley, Lester C.

Whiting

'11 Mayer-Oakes, Frederick T.

# IOWA

Ames

'24 Towne, Edmund B. Cedar Falls

'11 Finkenbinder, Erwin 0.

Iowa City

'97 Starbuck, Edwin D.

Oskalcosa

'30 Turbeville, Harry E.

# KANSAS

Emporia

'00 Triplett, Normal

Lawrence

'97 Lindley, Ernest H. '12 Wheeler, Raymond H. Levenworth

'12 Sarasohn, Israel J.

Pittsburg

'07 Dellinger, Oris P. '15 Randolph, Vance

Topeka

'28 Bell, Ruth E.

## KENTUCKY

Bowling Green '04 Mutchler, Fred

Lexington

'11 Basset, Gardner C.

Louisville

'13 O'Brien, Frank J.

Murray

'20 Poole, Charles P.

Pisgah

'10 Hart, Robert S.

Richmond

'14 McDougle, Ernest C.

# LOUISIANA

Baton Rouge '17 Russell, Robert P.

Ruston

'11 Steele, Adele G. '11 Steele, Asa G.

# MAINE

Augusta '26 Burrill, Meredith F.

Bangor

'10 Barker, Byron W.
'22 Metcalf, Charles A.

Fort Fairfield

'28 Rich, George B.

Kent's Hill

'25 Dix, Charles T.

Livermore Falls '13 Day, Lorey C.

'24 Farrington, Wendell F.

Monson

'12 Goodrich, Merton T.

Orono

'30 Ashworth, Jessie E. '22 Dickinson, Charles A.

'26 Durgan, Elford S.

Portland

'17 Dunham, Earl T.

'12 Kirby, John R.
'18 Murphy, Blanche L.
'16 Ware, Alfred T.

South China

'19 Tatham, Lewis C.

Waterville

'08 Helie, Euclid '10 Morrow, Curtis H.

Winthrop

'13 Hamilton, A. Edward

Wiscasset

'21 Cummings, Randall F.

#### MARYLAND

Annapolis

13 Thomson, Earl W.

Baltimore

'17 Bowman, Ethel '18 Civen, Nathan

'13 Claman, Samuel '25 Clarkson, Paul S.

'25 Dodge, Raven O.
'23 Foley, Gardner P. H.

'20 Hodge, Benjamin E. '04 Hubbard, John C. '08 Millea, William L.

'15 McDougle, Ivan E. '26 O'Bryan, Miles

'30 Powell, Katherine A. '96 Taylor, Samuel N.

'26 Tarlov, Isadore M.

Berlin

'15 Shea, Theodore E.

Chestertown

'10 Boland, Marian G.

College Park

'18 Sprowls, Jessie W.

Emmitsburg

'23 Guyton, Homer W.

Franklin

'10 Stoutemyer, John H.

Mt. Savage

'28 Coty, Everett W.

Poolesville

'28 Crook, Mason N.

Townson

'99 Partridge, George E.

#### MASSACHUSETTS

Agawam

'26 Hadley, Allan M.

Amherst

22 Cutler, Frederick Morse '06 Gage, George E.

'29 Lippincott, Stuart W. '22 Porter, Charles S.

'10 Powers, Wallace F.

Andover

'15 Forbush, Guy J.

Arlington

24 Johnson, Carl A. '08 Lewis, Earl S.

> 13 Brown, Thous.

'10 Rasely, Warren McK.
'12 Smith, John A.

Ashburnham

'25 Hammond, Arthur N.

'27 Young, Richard E. Clark Alumni Cal. Geo Ind

Auburn

'27 Civalier, Roland B.

Babson Park

'10 Millea, John E.

Belmont

'27 Morrill, Emmet T. '17 Smith, Everett H.

Bernardston

'29 Slate, Robert I.

Beverly

'23 Golden, Sherman E.

Boston

'23 Armitage, Harold B. '05 Bramhall, Robert I.

'09 Bumpus, Samuel F. '13 Carruthers, Paul E.

'09 Chase, Howard E. '13 Coyne, Charles E.

'21 Crock, Israel Z. '05 Cushman, Roy M.

'10 Cutler, Harold J.
'23 Dexter, Robert C.

'25 Doherty, Richard P. '12 Drake, Dorothy

'10 Earle, Edward

'18 Feinsilver, Joseph E. '15 Fitchet, Seth M.

'27 Forsberg, Randolph W. A.

'05 Gates, Burton N.

'16 Gifford, Raymond T. '25 Girard, Lillian '23 Groop, Waldemar H.

'18 Harriman, Edward N.

'23 Higgins, Donald E. '28 Holmes, Kenneth B.

'07 Hunt, Robert B.

'15 Johnson, C. David '28 Jones, Lloyd C.

'10 Kadesch, J. Stevens '09 Kallom, Arthur W.

'21 Landry, Paul E

'22 Landry, Philip R. '16 Levensohn, Abraham

'11 Loomis, Robert H.

'06 Marble, Henry C.
'27 Miller, Eileen M. '11 Melvin, Roy S.

'26 Panarity, Gerim M.
'20 Pomeroy, Howard E.
'25 Pooler, Priscilla A.

'12 Rasely, Hiram N.
'13 Resnik, Samuel

'19 Ringquist, Oscar E. '25 Scannell, Agnes V.

'17 Shukle, Revashenker M.

'10 Sowles, Horace K. '21 Thomajan, Zareh G.

'10 Wheeler, Lucius B. '12 Whitman, Warren C.

Bournedale

'25 Mason, Carol Y.

Bridgewater

26 Gates, Mrs. Lillian F. '29 Huffington, Paul

Brighton

'09 Carroll, Charles S.

Brockton

'15 Champ, Anthony M.
'22 Winn, Warren B.

Brookline

'20 Ballard, Kenneth C. '91 Nichols, Herbert

'12 Sheehan, Jeremiah '14 Tupper, Frank E.

Cambridge

'29 Adams, Hobart W.

'20 Bigelow, Karl W.
'20 Browne, Gordon W.
'29 Coffyn, Kingsland A.

'11 Cole, George E. T.

'23 Dexter, Mrs. E. A. '25 Gates, Paul W.

'24 Johnson, George E.

'29 Kaneb, Albert J. '27 Larrabee, Carlton H.

'18 Mellor, Earl G. '26 McKelvey, Blake

'15 Pratt, Carroll C.
'20 Pratt, Mrs. C. C.

'17 Richardson, Edgar B. '09 Salmon, John J.
'23 Seward, Ralph P.

'13 Staebner, William H. '27 Swartz, David E

717 Titchener, John B.
792 Wheeler, William M.
727 Zarrow, Harry
717 Zeldin, Samuel D.

Charlestown

'10 Roche, John F.

Charlton '30 Hollis, Walter

Charlton City

'06 Osborn, Willard L. Chicopee Falls

'15 Geldard, Walter J.
'23 Gunter, William
'30 Spence, Vina E.

Dalton

'30 Peltier, Charles L.

Deerfield

'11 Gammons, Herbert '17 Perrin, Lloyd W.

Dorchester

16 Ginsburg, Maynard '26 Loewenberg, Bert J. '11 Norris, Albert F.

Duxbury

'91 Bumpus, Hermon C.

East Boston

25 Carlson, C. William

Easthampton

'29 Hastings, Walter, Jr. '18 Johnston, Earl N. '22 Rouse, Charles E.

East Weymouth

'27 O'Halloran, William F.

Fairhaven

'30 Rogers, Harry

Fall River

'05 Chisholm, William J.

Farnumsville

'29 O'Neill, John A.

Fitchburg

'09 Barrows, George M. '10 Butler, Harry

'24 Cowdrey, C. Francis, Jr.

'28 Smith, Abraham

'11 Walsh, James H., Jr.

Framingham

'22 Damon, Curtis '27 Dyer, George B.
'17 Jones, Carl E.
'13 Leach, Lester C.

'25 Reynolds, Paul E '00 Thurber, Charles H.

Gardner

'09 Bent, Arnold A. '27 Bowden, Hervey F. '12 Cody, Paul L.

'12 Godfrey, Henry R. '18 Kuniholm, C. Harry

'29 Wheeler, Alfred H.

Gloucester

'14 Edson, Earle R. '07 Quimby, Howard L.

Grafton

'23 Nichols, Corydon R.

Great Barrington

'24 Lynch, Harold E.

Greenfield

'30 Chapin, Lucy E.

'22 Sturtevant, Ralph E.

Groton

29 Backlin, Everett E '23 Ferguson, Arthur W.

Hampden

'12 Jacobson, Henry

Haverhill

'23 Mansur, Eric W. '11 Thompson, Hubert C.

Holliston

'18 Dixon, Mrs. George E. '03 Wells, Roy T.

Holyoke

'21 Weinberg, Max '29 Welson, Milton K.

Hudson

30 Marchant, William E.

Huntington

'10 Cross, Joseph P.

Hvannis

28 Rucker, Robert W.

Lancaster

05 Ewing, John G. '24 Winslow, Guy H.

Lawrence

'16 Mason, Harry '17 Mooradkanian, Greg-

'29 Pollock, Morris

Leicester

'24 Mack, Harry E.

'30 Southwick, Thomas E.

Leominster

30 Brady, Edward W.

'24 Coty, Francis J.

'26 Dumas, Theodore E. '29 Geary, Donald J. '16 Gist, Nathan H.

'28 Lincoln, Elisabeth M.

Lowell

'29 Kremer, Abraham '22 Smith, Mary A.

'15 Virginia, Sister Marie, S. N. D.

Lunenberg

'14 Talbot, Rolfe H.

Malden

'17 Haire, Paul G.

Marlbero

28 Carey, Gertrude M.

'30 Dolan, Robert A.
'13 Gage, Sumner C.

'22 Riani, Alfred J.

Mattapan

'14 Lundgren, Albert G.

Medford

21 Battles, Stanley C. '21 Hubbard, F. Edgar Merrimac

30 Dickey, Robert I.

Millbury

'27 Beaton, Stephen, Jr. '30 Higginbottom, George

'29 Harris, Marion V. '23 Ratigan, John E.

Milton

'16 Sage, David

Monson

23 Bliss, Lawrence E. '23 Lyon, Leroy A.

'12 Squier, Rosie G.

Mount Hermon

'23 Franz, Albin E.
'23 White, Lester P.

Natick

20 Foley, Raymond D.

'15 Sheehan, John F.
'09 Sheehan, Thomas W.

Needham

'12 Herdman, Gordon W.
'26 Packard, Leonard O.

New Bedford

'30 Crowley, Paul M.

Newtonville

'16 Andress, J. Mace

Northampton

24 Bergen, J. Frederick '13 Jones, Arthur Taber

North Attleboro

'14 Morris, George W.

Northboro

'13 Gay, Ray L.

'28 Felt, Charles W. '26 Felt, William N.

North Oxford 22 Ivok, Leo

Norton '27 Bannister, Lois A.

Norwood 20 Stitt, Albin

Orange '25 Johnson, Emil

'14 Karlson, Hugo P.

Oxford

26 Stetson, William C. '10 Taft, Arthur C.

Palmer

'21 Healey, John H.

Pittsfield

'16 Brierly, John E. '09 Clare, Edward W. '17 Weeks, Angelina L.

Reading

'05 Keneely, Ralph S.

Sandwich

22 Parkes, Alanson W.

Scituate

'05 Wingate, Harold C.

Shelburne Falls

'11 Cummings, Stanley W.

Shrewsbury

'26 Cooke, James A.

'08 Everett, Lewis W.
'30 Foxhall, Harry

'10 Haskins, Henry S.
'12 Peltier, Louis J.

Somerville

'16 Ryan, Francis A.

Southboro

25 Montgomery, Eugene

'21 Smith, David H.

'20 Taylor, Wilfred L.

Southbridge 24 Conner, J. Eva

South Easton

'16 White, Leslie B.

South Hadley

'26 Noble, Dorothy V.

South Hamilton

'20 Cottle, William E.

Spencer

'27 Dickinson, Roger F.

'28 Silk, Ellen M. Howard

Springfield

'20 Affleck, George B.

'17 Bodfish, Robert W.

'22 Clune, Mary C.

'24 Cohen, Irving C.
'24 Cross, Hartley W.

'12 Cummings, Charles H.

'97 Dawson, George E.

'29 Haberman, James C.
'30 Kenworthy, Philip W.
'14 Kiley, M. Marcus

'22 Millman, Max

'07 Phelps, Lyman B.
'12 Risley, C. Harold

'10 Robinson, Carroll W.

'29 Ten Broeck, Ed. M.

Stockbridge

'28 Dexter, William A.
'11 Laine, Edmund R., Jr.

Stoneham

'01 Hylan, John P.

Sutton

'30 Snell, Silvanus H.

Swampscott

'17 Stanton, Joseph M. '05 Webb, Reginald L.

Taunton

'25 Libby, Paul O.

Tufts College

'16 Blanchard, Harold H.

'23 Imlah, James A. H.

Waltham

'25 Fay, Louise

'21 Gesner, Kenneth C.

22 Sommerman, Henry

'30 Wilson, Frank E.

Watertown

'20 Slate, Everett J., Jr.

'10 Weaver, Edward E.

Waverly

'18 Gifford, Frederick O.

Webster

'30 Roy, Joseph L.

'29 Zumpfe, Leroy C.

Welleslev

'27 Johannsen, Dorothea E.
'28 Lee, Harriet E.

'16 Morse, Laurence P. '15 Smith, Lawrence

'16 Treudley, Mary B.
'17 Zigler, Michael J.

Westboro

'15 Greenwood, Wallace W.

West Boylston

'30 Murdock, Frederick M.

West Concord

'11 Damon, Alice H.

Westfield

'21 Toombs, Herbert R.

West Medford

'21 Clark, Edwin R.

Weston

'17 Power, Francis W. (S. J.)

West Sommerville

'11 Racine, Arthur R.

West Springfield

'13 Cummings, Leo G.

Wilbraham

'29 Kneller, George F.

Williamstown

'17 Clark, John B.

Winchendon

'05 Greenwood, Robert B.

'05 Harrington, Berton B.

Winthrop

'12 Powers, Frank R.

'26 Surabian, Simon

Wollaston

'12 Winslow, Arthur C.

Worcester

'30 Abelsky, Michael '13 Adams, Frank L.

'12 Alexander, Forrest E
'11 Anderson, Ernest L.
'26 Anderson, Henry C.

'07 Asher, Jacob

'16 Atwood, Leland L.

'27 Atwood, Wallace R.

'13 Averill, Lawrence A.

'29 Bailey, Irving E.
'22 Baker, George E.

715 Bartlett, Ralph S.
726 Bassett, Walter G.
728 Baxter, John F.
720 Baxter, William J.
728 Becker, Raymond Carl

'06 Belisle, Ferdinand J.

'22 Benjamin, Mendall

'21 Bergquist, Albert G.

'14 Berry, Francis C.

'30 Blomstrom, Lillian S.

'28 Bloom, William O., Jr.

'14 Boyajian, Setrak K.

'11 Boyle, Charles F.
'30 Boyle, Thomas E.

'27 Breen, Thomas A.

'17 Brennan, Fred J.
'16 Brennan, Mrs. Fred J.

'29 Briggs, Reginald A

'16 Brigham, Harold K.
'12 Brigham, Lawrence W.

'18 Brooks, Bernard F.
'14 Brooks, Roger E.

'16 Burnham, Guy H.

'12 Butler, Walter G.
'24 Caase, Emilie C.

'24 Callahan, Mary J.

'28 Callahan, Mary M.

'26 Carlson, Gustaf H.

'10 Cashen, George B.

'30 Christensen, Thomas E.

'27 Christenson, Mildred E. '11 Clancey, Frank H.

'92 Clark, Thomas H.

'13 Cochran, Harold C.

'10 Cochran, M. Ethel '16 Cole, Franklin E.

'24 Collamore, Edna A.

'16 Conlin, James F.

'27 Corbin, Milton W.

'24 Coulson, A. Gertrude

'28 Cove, Joseph E.

'26 Crossley, Lester F.

'29 Curley, Elizabeth G. '08 Curtis, Elnora W

'29 Daley, Kathrine M.

'21 Davis, Walter N.
'12 Dickie, Allan
'05 Disney, Charles E.
'07 Dixon, Edith M.
'30 Dobie, Albert J.
'10 Dolan, Edward J.
'20 Deaches, Michael '30 Donahue, Michael A.
'22 Donnelly, Everett C. '26 Donoghue, Cornelius S. '19 Doolittle, Clyde B.
'25 Dorward, Arthur R. '27 Dow, Richard B. '09 Downey, Helen M.
'29 Duesel, Bernard F.
'26 Duke, Mary A. 29 Dymond, Emily '29 Ekblaw, W. Elmer '11 Elliott, Robert T. '14 Ellis, Ralph W. '16 Elisworth, Frank H.
'30 Erickson, Albert C.
'28 Erickson, Franklin C.
'19 Ericson, Emil '21 Farnsworth, Albert '29 Farrell, Albert L.
'15 Feingold, Louis S. '30 Feinsilver, Oscar '07 Felton, Leon E.
'10 Fenner, Harold L. '25 Ferguson, John H. '21 Fish, Abraham '29 Fitton, Edith M. '29 Fitton, Edith M.
'27 Fitzgerald, John E., Jr.
'26 Fitzgerald, John J.
'20 Fogarty, John J., Jr.
'26 Foley, Harriet A.
'16 Foster, George P.
'05 Fox, Michael B.
'23 Fox, Winston E.
'07 Friedman, Albert M. '29 Fryer, Francis L. '05 Garbutt, J. Ralph '22 Gay, Harold J.
'27 Geer, Gordon N. '29 Gervais, Roland E.
'10 Goddard, Robert H. '23 Goldberg, Joseph '29 Goldberg, Milton H. '29 Goldman, Nathan '29 Grace, Sydney

'07 Friedman, Albert M.
'29 Fryer, Francis L.
'05 Garbutt, J. Ralph
'22 Gay, Harold J.
'27 Geer, Gordon N.
'29 Gervais, Roland E.
'10 Goddard, Robert H.
'23 Goldberg, Joseph
'29 Goldberg, Milton H.
'29 Goldberg, Milton H.
'29 Goldman, Nathan
'29 Grace, Sydney
'27 Graham, Clarence H.
'07 Greenwood, Rolland
R.
'24 Grey, Robert M.
'26 Griffith, Clifford O.
'15 Guerin, Mary E.
'30 Hackett, Freeman K.
'28 Haines, Charles G.
'08 Handy, LeRoy M.
'26 Harden, Luberta M.

GEOGRAPHICAL LISTS '30 Harding, Kenneth C.
'29 Healey, Josephine E.
'10 Hearn, George D.
'25 Herbert, Mrs. Rose
'26 Higginbottom, Edwin '07 Hillman, Archibald M. '13 Hoar, Mrs. Chas. E. '24 Hodge, Mrs. Thekla '29 Hughes, Hartwell M. '29 Jefts, Lillian 29 Jetts, Lillan
12 Johnson, Carl
14 Johnson, Charles W.
29 Johnson, Hilda V.
28 Johnson, Olga A.
21 Kelley, Harry N.
30 Kendall, Gerald M.
29 Kennedy, Melvin D.
24 King, Charles V. '24 King, Charles V. '29 Kirby, Margaret V. '11 Kirkpatrick, Robert '29 Klingele, Arnold H. '21 Knight, Kenneth H. '17 Leavitt, Joseph '05 Leland, Leslie P. '23 Levenson, Benjamin '30 Levenson, Samuel '21 Lewis, Charles B. '05 Lingley, Ralph G. '27 Little, James G. '30 Lundgren, Evelyn C. '29 Luvisi, Fred P. '24 Lyons, Abraham M. '28 MacGeoch, John B. '09 Magni, John A.
'22 Maher, Ellen A. '27 Maher, Margaret E. '30 Mahony, Richard '29 Mansur, Lawrence C. '20 Mathews, Mathew J.
'25 Matthews, Marietta
'12 Maynard, Leland C.
'19 Meleski, Harry J. '16 Merriam, George H. '16 Meyerhardt, M. W. '05 Miller, Allan B.
'28 Mills, Frederick T. '07 Mirick, George H. '18 Mitchell, Archibald W. '30 Moberg, Edgar A.
'13 Molt, R. Nelson '10 Monat, Achilles H. '11 Monroe, Arthur '30 Moore, Jonathan F.
'22 Moran, John A. '08 Moriarty, George F.
'10 Morley, Raymond K.

'26 Mullany, Catherine P.

'27 McQueeny, Theresa F.

'08 McNamara, Frank P.

'21 Myers, Roscoe W.

'19 Nelson, Arthur J.
'26 Nicol, Theodore
'11 Oakes, John W., Jr.,
'14 O'Connell, John F.
'14 O'Connell, Joseph V.
'27 O'Connor, Delia G. '14 O'Day, John P.
'12 Oehme, Paul A. '13 O'Flynn, George B.
'22 O'Leary, John B.
'21 Olin, Paul A. '14 Parker, Charles C. '23 Perman, Samuel '11 Perry, W. B. '22 Phinney, William L. '12 Pilsworth, Malcolm N. 12 Pilsworth, Malcolm N.
24 Popko, Peter F.
24 Price, Ronald W.
29 Quinn, James
10 Ramsdell, Floyd A.
29 Raphael, Ralph
19 Rebboli, Mrs. Mary D.
29 Regan, Ellen F.
10 Rice, Allan G. '08 Richardson, Carlton E. 25 Ridgley, Douglas C.
24 Riley, Michael F.
29 Ringoen, Andrew T.
26 Rogers, John H.
20 Roope, Percy M.
305 Ryan, Edward A.
21 Russell, Edward D. '19 St. John, Abraham G.
'11 Sampson, George G.
'10 Schofield, Roger W. '30 Schonning, Carl E. '24 Schultz, Isadore E. '30 Scott, John H.
'21 Seder, Saul A.
'18 Segal, Harry '21 Shapiro, Harry I. '27 Sheftel, Harry B. '29 Sherman, David '27 Shipman, Fred W. '21 Signor, Henry L. '29 Silverman, David '27 Silverman, Samuel '20 Simmerer, H. Eugene '30 Sleeper, Samuel '16 Sloan, Harold H. '19 Smith, Laura G. '26 Smith, Louis V. '10 Smith, Pauline A. '20 Snow, Arthur P., Jr. '30 Solomon, Harry D.
'28 Stanton, Cora A.
'15 Stearns, George E. '30 Stedman, Harry P. '30 Stevens, Frank P. '06 Stevenson, Timothy J. '29 Stewart, Walter G.

'07 Story, William E., Jr. Grand Rapids MISSOURI '13 Sullivan, F. John '07 Broene, Johannes '17 Dickey, Earl H. Columbia '28 Sullivan, John J. '11 Sullivan, Thomas F. '27 DeGangi, Francis L. '23 Mullett, Charles F. '06 Peckham, Albert J. '26 Swan, Paul R. Hancock Independence '16 Talamo, Haskell '11 Cooley, Herbert C. '14 Talamo, Joseph '24 Tanner, Elmo '14 McDowell, Floyd M. Harbor Beach '16 Smith, Frederick M. '24 Thayer, P. Edward '13 Tobin, Francis A. '15 Todd, Leonard C. '15 Thomas, Adrian Jefferson City Harbor Springs '98 Curtis, Henry S. 30 Clarke, Katharine B. Kansas City '28 Tomajan, Russell Highland Park 20 Field, John W. '30 Ussher, Sydney R.
'29 Vinal, Ella L. '21 Shannon, Luke E. '14 Knapp, Merle C. Hillsdale Monett '20 Wahlstrom, Carl E. 28 Schlesselman, George '30 Blackwell, George L. '13 Waite, Mary A. W. '17 Walsh, Henry C. '29 West, Anthony J. Perryville Kalamazoo 23 Schmucker, John P. '17 Balch, Royal T. '25 Weymouth, Frank D. '21 Wheeler, A. Harry Rollo '24 Carney, E. Seaton '22 Des Autels, George F. '12 Frame, Floy H. '30 Whitman, Samuel M. '27 Ripley, Mabel '21 Stowe, Allen B. St. Charles '30 Wiel, Theodore A. '00 Williams, Frank B. '25 Williams, John L. '28 Wilmouth, Irene F. 27 Tupper, Eleanor St. Louis Marquette '25 McLean, Francis T. '14 Purnell, John '14 Twining, Ralph H. '14 Purnell, '30 Winter, O. Frederick '15 Woodbury, Harold D. Mount Pleasant '03 Swift, Edgar J. '09 Rowe, Eugene C. '24 Young, Jacob Y. Springfield Olivet 27 Koeppe, Clarence E. '16 King, James Wrentham MONTANA Palaski '22 Pelletier, Valmore A. '08 Steves, George H. Deer Lodge MICHIGAN 25 Stejer, Francis A. Saginaw Ann Arbor '19 Lange, Herbert F. Dilton '29 Avery, Mrs. Eula V. '23 James, Preston E. St. Johns '12 Mackie, Ranson A. 28 Hanratta, Anna Sayle '19 Langford, C. Harold '16 Oldenburg, William H. MINNESOTA '06 Myers, George E. '08 McIndoo, J. M.
'13 Sawyer, Frank L. Duluth NEBRASKA '24 Auchampaugh, Philip Kearney '26 Keller, Donald '14 Woodhead, Arthur E. '12 Bohannon, Eugene W. Lincoln Augusta Minneapolis '27 Bengtson, Nels A. '23 Forney, John D. '17 Bird, Charles '23 Shipman, Julia M. Battle Creek '16 Greisheimer, Esther M. '21 Hodgkinson, Harold '15 Webster, Clarence M. '17 Bean, Francis J. '13 Horne, William O. Detroit '29 Deeks, William T. '27 Schwendeman, Joseph '13 Anselmi, Adolph '24 Knight, Ella B. R. '24 Cammett, Stuart H. '21 Tinker, Miles A. NEVADA '28 Holzhauer, Carl F. '20 Willey, Malcolm Mac-Reno '30 Hudgins, Bert '11 Jackson, Harry L. donald '15 Hicks, Charles R. Rochester '13 Johnson, Frank L. NEW HAMPSHIRE '16 Thompson, Luther S. '17 Lundgren, Le Roy E. Conway '10 Luther, Robert H. St. Paul '21 Ryer, William H. '24 Hastings, Russel B. '09 Karlson, Karl J. '16 Otis, Paul H. Durham '09 Patterson, Thomas L. '19 Ekdahl, Adolph G. '03 Kuhlmann, Fred '14 Phelps, Everett R. '20 Kalijarvi, T. W. V. '27 Richards, Gragg

MISSISSIPPI

'23 Rice, George E.

Tougaloo

'24 Ridderhoff, John A. '17 Stevenson, Eugene

'22 Partridge, Allan B.

'05 Slobin, Hermon L.

'22 Partridge, Roland E.

Hanover

'29 Carlson, Albert S. '97 Stewart, Colin C.

Lancaster

'10 Hinkley, Irving A. Lisbon

'14 Trafton, F. Lester

Littleton

'10 Dodge, Henry A.

Manchester

'27 Paige, Mildred M.

Nashua

'17 Farwell, Mrs. Genevieve

New Hampton

'21 French, Albert H. '99 French, John S.

North Walpole

'08 Russell, James A.

Salem Center

'05 Glazier, Philip N.

Woodsville

'07 Mann, Henry C.

# **NEW JERSEY**

Bavonne

'21 Towne, Charles C.

Blairstown

21 Eaton, Stacey E. Bound Brook

'28 Spadola, John M. '28 Whiting, Stanley H.
'28 Wilder, Frank W.

'10 White, Ralph H.

Clifton

'23 Harada, Taichi

East Orange

'28 Anderson, S. Axel

Elizabeth

'16 Peck, Edward B. '23 Rosen, Raphael

Glen Ridge

'12 Stoddard, Russell B. '13 Townsend, Irving J.

Jersey City
'18 Clee, F. Raymond
'14 Ward, John T.

Kenvil

'27 Eagan, Henry F. '28 Peterson, Ernest G.

Montclair

'06 Wakefield, Jerry M.

Newark

'10 Fuller, Harold F. '23 Pucillo, John

'22 Rizzolo, Attilio M.

'15 Robinson, Bruce B.
'11 St. John, Charles W.

New Brunswick

22 Chaoush, Angelos G. '12 Klain, Zora

'16 Prince, Arthur L.

Parlin

'26 Dawson, George A.

Patterson

'11 Kaufman, Reuben

Pennington

'27 Small, Ralph L.

Penns Grove

'12 Dunphy, Raymond A.

Perth Ambov

'21 MacDonald, Malcolm K.

Plainfield

'14 Burdick, Earl V.

Pleasantville

'11 Schwab, William K.

Princeton

'11 Lefschetz, Solomon '11 Lefschetz, Mrs. Solo-

'24 Sessions, William V.

Roselle

'18 Cook, Leon W.

Summit

'24 Engleman, Harry A.

Upper Montclair

'14 Ferguson, Harold A. '26 Milstead, Harley P.

Verona

'13 Ogilvie, Clinton B.

Westfield

'20 Brooks, Chester E.

# **NEW YORK**

Albany

'13 Beik, Arthur K. '09 Davis, Glenn M.

'93 Metzler, William H.

'21 Prue, Milton F. '27 Tierney, Thomas J.

Alfred

20 Rice, Murray I.

Annandale-on-Hudson

'16 Sottery, C. Theodore

Auburn

'08 St. John, Edward P.

Aurora

'12 Campbell, Ivy G.

Bayside

'10 Poland, Mrs. Orville '09 Le Sure, Harvey K. Belle Harbor

'06 Baron, Albert H. N.

Binghamton

'24 Shor, David M.

Bolton Landing

'26 Lamb, Wallace E.

Buffalo

'14 Daniels, Earl R. K. '05 Dessert, Nelson P.

'24 Hood, Everett W.

'06 Lyford, C. Allan '12 Peckham, John L.

'14 Sproul, Leland S. '25 Thomas, Katheryne C.

'30 Thomas, Raymond C.

25 Toomey, John J.

Canandaigua '24 Elliott, Ray T.

Chautauqua

'08 Chaffee, Reginald R.

Clinton

'98 Ferry, Frederick C.

Corning

'10 Fulcher, Gordon S.

Cornwall

'28 Kraemer, Irving

Cornwall-on-Hudson '23 Piper, Lewis H.

Cortland

'12 Dwyer, John F. '23 Park, Bessie

Diamond Point

25 Beswick, Albert E.

East Aurora

'09 Willcox, Inman L.

Elmira

'29 Gerard, Wilhelmina

Flushing

'28 Tatham, Stanley J. '21 Morrison, Joshua

Garden City

'09 Styles, Edmund D.

'17 Bullard, Ralph H. '12 Whiting, Robert A.

Glen Falls

'13 Boyce, Paul L.

Hamilton

'26 Choquette, Charles A. '25 Smith, Sherman M.

Hewlett

'12 Johnson, Ward L.

Ithaca

'15 Fisher, Roy M.

'10 Forbes, William T. M. '26 Hickman, Elizabeth L.

'16 Moore, Clyde B. '25 Nafe, Robert W. '98 Rettger, E. W. '24 Saunders, Richard M. '11 Weld, Harry P. Keeseville '10 Thomas, Horatio Kenmore '09 Dowd, John E. Little Neck Hills '05 Keith, William H. Mamaroneck '10 Wesson, Philip D. Middletown '29 Payne, Arvella Monroe '12 Thayer, Ralph H. Mount Vernon '10 Holmes, William H.
'28 Murphy, Theresa M. New Rochelle '12 Dolbear, Katherine E. '21 Ross, Burgess B. '21 Ross, Mrs. Burgess B. New York '15 Aldrin, Edwin E. '26 Aleck, Adolph W '29 Belanger, Leonard J.
'26 Benner, Clyde F.
'20 Blair, John E.
'15 Blake, William H. '21 Blanchard, Kenneth C. '21 Boylan, George E.
'23 Brind, Abraham
'29 Butler, Richard W. '22 Campbell, Elmer I. '09 Carr, Roland P. '28 Carver, Wells E.
'22 Chang, C. William
'28 Chase, George B.
'03 Coffin, Joseph G. '05 Cooke, Frederick N., '21 Corash, Harry '20 Crafts, Leland W. '28 Crawford, Harold H. '15 Curtis, Roswell F. '29 Dahl, Randle E. '16 Darling, Eugene A.
'08 Dean, Ernest W. '12 Dibble, Roy F. '23 Eastwood, Floyd R. '96 Edmondson, Thos. W. '14 Edson, Robert A. '26 Edwards, George '22 Egan, Thomas K., Jr. '18 Ericson, Folke E. '05 Estabrook, Arthur H. '10 Fallon, Perlie P.

'24 Feinberg, Hyman I. '25 Ferrara, Adam E. '23 Finkelstein, Herman '18 Flagg, A. Glennon '10 Foster, James K.
'17 Fryer, H. Douglas
'20 Fryer, Mrs. H. Douglas '17 Fuller, Raymond G. '13 Gibney, Carroll N.
'24 Gilbert, Ralph W. '15 Goldblatt, Myron E. '27 Gooze, Charles '28 Goss, George L. '05 Greelish, Devney J. '20 Greenall, Walter G., Jr. '20 Greenberg, Abraham '26 Griff, Samuel '24 Hannan, James P. '29 Hartman, Raymond P. '16 Hartz, George E. '28 Hickey, Thomas Ir. '18 Hickman, Clarence N. '95 Hill, John E. '23 Jacobson, Frank J. '18 Jasem, Saul I. '06 Jewett, Stephen P. '28 Johnson, Robert E. '09 Kelley, Charles B. L. '14 Kohs, Samuel C. '27 Ku, Te Ming '15 Lansing, Joseph T. '21 Leavitt, Ashley L.
'16 Lehrer, Leib '26 Lagoudakis, C. G. '18 Levensohn, Hyman J. '22 Levine, Edward H. '30 Levine, Robert '23 Long, Edward J '07 Macklin, Paul M.
'28 Master, Moses '23 Melican, James P. '29 Mettler, Fred A. '28 Meyer, Leo J. '27 Mitchell, Marion '09 McCurdy, James H. '21 McGovern, John G. '29 Niman, William A. '14 O'Brien, John C.
'23 O'Leary, Ellen J.
'30 Olson, Dorothy M. '22 Peardon, Thomas P. '24 Perlmutter, Nucia '09 Phelan, William F. '27 Porter, Gordon D. '24 Potter, Norwood C. '08 Prager, William L. '22 Pratt, Stewart M.

'24 Richmond, Eugene L.

'21 Rodgers, Stanley E., Jr.

'28 Rothman, Theodore '17 St. John, Ancel '28 Sanger, Quintin M. '13 Sargent, Elon G. '20 Schoonmaker, Geo. B. '29 Shanahan, Raymond '18 Shea, Gerald F. '10 Sheldon, Otis C. '29 Silverman, Yetta '29 Smith, Benjamin '05 Smith, Howard M. '12 Smith, Milton M.
'23 Smith, Sheldon B. '27 Sullivan, Catherine E. '26 Tashjian, John '18 Thompson, Russell S. '18 Thompson, Russell S.
'10 Udo, Kazuwo
'28 Van Royen, William
'20 Whitcomb, G. Rowe
'97 Wills, Albert P.
'27 Wolfe, George M. D.
'10 Woodbury Robert M.
'21 Wuorinen, John H.
'20 Zinn, Earl F. J., Oneonta '29 Matteson, Estella Orchard Park '14 Eells, Ernest E. Oswego 27 Hart, Mrs. Isabelle K. '14 Saisselin E. L. Pearl River '30 Slade, Frank D. Peekskill '16 Joyce, Thomas B. Potsdam '27 Forsythe, Marion B. Poughkeepsie '22 MacLeod, Alexander B. Rochester '05 Bender, William A.
'09 Parker, Lester S. Rome '25 Blades, Ansley O.
'22 Fraser, A. D. Ross
'27 Goeller, Robert B.
'22 Thayer, Dwight H.
'19 Towle, Laurence C. Saratoga Springs

'98 Kline, Linus W.

'14 Oxholm, Gustav K

'21 Leonard, Clinton S.

'20 Hurd, Charles B.

Sayville

Scarsdale

Schenectady

Sharon Springs '26 Reid, Frank I. Sheriden '26 Merritt, Bessie A.

Staten Island

'13 Nordenholt, Herman C.

Stony Brook

'23 Armitage, Frank G.

Syracuse

'15 Brightman, Charles L. '18 Peters, Mrs. Iva L. '19 Van Dusen, Albert P.

Troy

'95 Nichols, Thomas F.

Utica

'27 Peterson, Alice H.

Watertown

'28 Hall, Florence E.

White Plains

'12 McCurdy, John R.

Whitestone

'22 Small, Sherwood

Yonkers

'11 Arnold, David J. '26 Graf, Francis O.

# NORTH CAROLINA

Chapel Hill

'10 Chase, Harry W. '09 Chase, Mrs. Harry W.
'12 Little, Malcolm G.

'09 Odum, Howard W.
'09 Odum, Mrs. Howard W.

'21 Schwenning, Gustav T.

'16 Nelson, Ernest W. '30 Spaulding, Charles C.

Elon College

'98 Guillet, Cephas

Hickory

'28 Boyden, Willard E.

Raleigh '17 Mitchell, Lily E.

#### NORTH DAKOTA

Grand Forks

'29 Schwieger, Albert J.

Mayville

'28 Addicott, Harold B.

Valley City

'24 Robertson, Ina C.

# OHIO

Ada

'18 Schieber, Clara

Akron

'14 Bankes, Walter J.

'13 Harrison, Marion M.
'12 Morton, Harold A.

'14 Murdock, Arthur W.

Ashland

'17 Jacobs, Edwin E.

Athens

'27 Cooper, Clyde E.

'07 Copeland, William F. '23 Crumley, Martha M. '08 Gard, Willis L.

'09 Mackinnon, Clinton N.

'09 Matheny, William A. '06 Porter, James P.

Berea

'14 Dustheimer, Oscar L.

Bowling Green

28 Hoyt, Edith E.

Cincinnati

'24 Brigham, Charles A. '18 Reed, Ellery F.

Cleveland

'05 Allen, George E. '14 Cannon, Robert H.

'15 Dexter, Wilbur B. '97 Ellis, A. Caswell

'14 Green, Howard W. '30 Gregory, Elizabeth E.

'12 Schulze, John F. W. '08 Siddell, William G.

Cleveland Heights

'29 Keller, Lois R.
'26 Martin, Mrs. Maude C. '10 Streeter, Robert J.

Columbus

'07 Anderson, Lewis F. '99 Goddard, Henry H. '24 Landin, Harold F. W.

'05 Lowden, Thomas S. '14 Mateer, Florence

'11 Nice, Leonard B.
'15 Nice, Mrs. Margaret M.

'08 Rockwood, Robert E. '26 Van Cleef, Eugene '26 Van Cleef, Mrs. Frieda

'17 Wood, Ernest R.

Defiance

'14 Pleasant, Gault W.

Delaware

'16 Eells, Hastings

Gambier '05 Allen, Reginald B.

Kenmore '27 Tausch, Mrs. Anne E.

Lakewood

'18 Finley, Austin P.

Oberlin '11 Hartson, Louis D. Oxford

24 Morse, L. Lucille '25 McConnell, Wallace R.

Springfield

'17 Reymert, Martin L.

Toledo

'08 Arnos, Edward M. '04 Trettien, Augustus W.

Urbana

'29 Conrad, Harold E.

Yellow Springs

'15 Chatterjee, M. N.

Youngstown

'27 Hobson, Maude A.

## OKLAHOMA

Alva

'11 Wood, Mrs. Moses E.

Bartlesville

25 Grandone, Peter '21 Smith, Harold M. '09 Smith, N. A. C.

Okmulgee

'27 Cole, Mrs. Ruth L.

Perry

'15 Elliott, Robert N.

Stillwater

'10 Donnell, Philip S.

Weatherford

'14 McCormick, Clarence

# OREGON

Corvallis

'06 Jewell, James R.

Eugene

'97 Boynton, William P. '09 Conklin, Edmund S.

'14 Crosland, Harold R. '15 DeBusk, Burchard W.

'23 Fish, Andrew

'13 Robinson, Kirkman K. '00 Sheldon, Henry D.

Portland

'07 King, Charles H. S.

Salem 20 Hewitt, Roy R.

# PENNSYLVANIA

Abbottstown

'30 Haines, George H.

Ardmore

'00 Slocum, Stephen E.

Bethlehem

'21 Meenes, Max '28 Stone, Robert

Bloomsburg

'24 Russell, H. Harrison

Bryn Mawr '95 Leuba, James H.

Collegeville '20 White, Elizabeth B.

Drexel Hill '19 Brewster, Frank V.

Easton

'29 Andress, Allen E. '26 Storer, Irving L.

Factoryville

'20 Closson, Earle R.

Germantown

22 Greer, Willard N. Langhorne

'05 Parker, Waldo D.

Mercersburg '15 Jacobs, Wilmarth I.

Narberth

'18 Brierly, Ralph C.

New Buffalo

'04 Bucke, W. Fowler Oakmont

'18 Callis, Conrad C.

Philadelphia

'09 Arnold, Fred M. '10 Baldwin, Ralph W.
'11 Bennett, Glen R.

11 Belinett, Gren K.
128 Blanchard, Phyllis M.
129 Bolton, Thaddeus L.
120 Edmands, Chas. F. W.
120 Harper, Russell D.
121 Hirsch, Samuel W.
120 Kirkpatrick, Clifford

'08 Larned, John H.
'21 Leavitt, J. Preston H.

'26 Loungway, Ferdinand J.

'20 Lucasse, Walter W.
'29 Lukens, Frank N.
'23 Nadler, J. Ernest
'17 Pitlik, Samuel
'17 Pond, Samuel E.
'18 Seder, Maxwell B.

'24 Shalloo, Jeremiah P. '19 Uppvall, Axel J. '21 Schub, Pincus

Pittsburg

'16 Allison, Vernon C.

'19 Batchelor, Wilbur C.
'14 Godfrey, Roland J.
'13 Jones, George Ellis

'12 Miner, Douglas F. '28 Munn, Norman L. '16 Rial, David W.

'29 Scott, Allan C.

'07 Stebbins, George E. '22 Warmbier, Edward I.

'08 White, Jesse H.

State College

13 Appledorn, H. H., Jr.

'05 Burrage, Leslie M.
'27 Heath, Charles O.

Swarthmore

'17 Allen, Mildred '14 Shaw, Charles B.

'28 Leeper, Robert W.

Waynesburg

'11 Harvey, McLeod

Westtown

'09 Hinshaw, Mrs. A. W.

# RHODE ISLAND

Auburn

29 Pasanen, Walter R. '22 Thompson, George R.

Lakewood

23 Russell, J. Francis

Pawtucket

'22 Everett, Kenneth C. '05 Gale, Frank H.

Pontiac

'13 Gilbertson, Albert N.

Portsmouth

'30 Wordell, Everett J. Providence

'22 Bates, James E.
'12 Carmichael, Robert R.

'30 Davis, Harry

'22 Foster, Lawrence S. '12 Hankins, Ralph H.
'23 Higgins, Roger W.

'13 Hill, Davis E. '29 Hillman, Owen N.
'15 Lewis, Charles B.

'24 Pearse, Harry

'11 Peters, Frank W '25 Reidy, Edward P.

'26 Springs, James D. '19 Sullivan, John W. '21 Wilder, S. Alden

'24 Wooster, Charles B.

Westerly

'20 Hanson, Dorothy

Woonsocket

'23 Cockroft, Grace A. '14 Donlon, Charles A. '12 Higgins, John R.

# SOUTH CAROLINA

Columbia

27 Bergman, Carl J. '04 Morse, Josiah

'15 Schneider, Samuel P.

Gaffney

'16 Calhoun, Arthur W.

Greenville

'05 Bowen, Sylvanus H.

Hartsville

'17 Dabbs, James M.

Spartanburg

'16 Brooks, James F.

# SOUTH DAKOTA

De Smet

'14 Besselievre, Wm. C.

# TEXAS

Austin

'16 Dawson, Paul R. '00 Eby, Frederick

Beaumont

'27 Heath, Herschel

Dallas

21 Dunn, Gustus A.

Del Rio

'16 Burgess, Mrs. S. A.

El Paso

'14 Fenton, Frederick A.

Houston

22 Bixby, F. Lovell '10 Sackett, Leroy W.

Huntsville

'28 Mitchell, May A.

Lubbock

11 Carter, Allan L.

Prairie View

'20 Alston, John H. VERMONT

Brattleboro

'15 Davis, Arthur E. '11 Emerson, Paul S.

Burlington

'14 Bullard, James A.
'29 Ewert, P. Harry

'08 Lindsay, Julian I.

Greensboro

'26 Pitcher, Thornton L. Marshfield

'30 Pitkin, Victor E.

Middlebury

'11 Howard, Frank E. '25 Swett, Phelps N.

Northfield

'22 Ford, John V. '28 Hidy, Ralph W. '28 Hidy, Mrs. Ralph W. '21 Perkins, Ernest R.

'26 Weed, Bester C.

Randolph

'17 True, Walter F.

St. Johnsbury

'25 Erickson, Robert S. N.

Waterbury

30 Kutukchieff, Ivan I. '12 Webb, I. Shaw

Williamsville

'30 Williams, William L.

#### VIRGINIA

Church

'16 Peabody, LeRoy E.

Dahlgren

24 Riffolt, Nils A. '15 Thompson, Louis T. E.

Emory

'26 Casto, E. Ray

Harrisonburg

'15 Huffman, Charles H.

Lynchburg

'18 Mattfield, H. W., Jr. '25 White, Charles L.

'15 Wilson, Edward C.

Manassas

'17 Illingworth, Robert S. '27 Tabor, Osborne B.

Richmond

'13 Negus, Sidney S. '15 Sanger, William T.
'94 Weems, Julius B.

Sweet Brian

'15 Folsom, Joseph K.

University

28 Dennis, Wayne '25 Geldard, Frank A.

Williamsburg

'10 Downing, Bertha C.

## WEST VIRGINIA

Charleston

'11 Smith, Claude L.

Fairmont

'22 Lindley, Charles A.

Glenville

'25 Post, Clarence

Huntington

'29 Prator, Moina

Morgantown

'03 Arnett, Lonna D.

'08 Chidester, Floyd E.
'20 Modder, Montagu F '15 McCorkle, Charles E.

Newburg

'16 Conley, Fred C.

Nitro

'16 Magoun, George L. '10 Sibley, Robert L.

# WASHINGTON

Bellingham

'27 Hunt, Thomas F.

Cheney

29 Freeman, Otis W.

'06 Cleveland, Alfred A.

'14 Coe, George A.

'22 House, Howard H.

Seattle

'98 Bolton, Frederick E.
'11 Brown, Herman E.
'15 Dvorak, Mrs. H. L.
'30 Gellermann, Louis W.
'08 Hastings, W. Glidden
'12 Stoy, Annie E.
'14 Thompson, Thomas G.
'14 Williams, Curtis T.

#### WISCONSIN

Appleton

05 Small. Maurice H.

Madison

'25 Kirk, Grayson L. '06 Rood, James T.

Milwaukee

'01 Sears, Charles H.

Waukesha

'13 Richardson, Roy F.

# WYOMING

Laramie

'11 Sparkman, Colley F.

'12 Sturtevant, Arnold P.

# TERRITORIES AND DEPENDENCIES OF UNITED STATES

# CANAL ZONE

Panama '26 Weber, J. Henry HAWAII

Honolulu

'24 Mountain, Harold A.

# PHILLIPPINE ISLANDS

Vigan

'18 Bassett, John J.

# PORTO RICO

Rio Piedras

'29 Baralt, Jose Lopez

San Juan

25 de Rosario, Mrs. Pilar

# FOREIGN COUNTRIES

# AUSTRIA

Steiermark

'13 Berger, Henry E., Jr.

BELGIUM

Brussels

'19 Pieters, Maurice J.

BRAZIL

Sao Paulo '13 Moran, William T.

BRITISH WEST INDIES

Jamaica

'13 Brown, Thomas I.

# CANADA ALBERTA

Calgary

'08 Coffin, Ernest W.

BRITISH COLUMBIA

Vancouver

'93 Hall, T. Proctor

Victoria '30 Laing, Lionel H.

NOVA SCOTIA

Halifax

'06 Nickerson, Carlton B. '23 Whyte, Earle F.

# Wolfville

'23 Osborne, Terry W. '11 Spidle, Simeon

# ONTARIO

Kingston

'04 Clark, Arthur L.

Toronto

'07 Brittain, Horace L. '05 Libby, Walter '93 Tracy, Frederick

# CHILE

Tocopilla

'21 Johnson, Ernest W.

Valparaiso

'17 Goodearl, Arthur W.

#### CHINA

Dairen

'09 Nakamura, Yasuma

'10 Brockman, Mrs. F. M.

Peiping

'20 Chang, Tao H.
'28 Huang, Yu-Jung

'25 Su, Lee

'10 Whitaker, Mrs. R. B.

Shanghai

'05 Burch, Clarence A. '25 Suvoong, Thomas H.

Soochow

'24 Chen, Jason H.

Tientsin

'13 Chang, Peng Chun '17 Chiu, Chung Yen '19 Li, Chi

Wuhu

'09 Lanphear, B. Woodward

# CUBA

Havana

'19 Ling, Ping

ENGLAND

London

'19 Hsu, Chang-hsu

Oxford

'12 Pierce, Harold F.

#### FRANCE

Grenoble

'23 Jackson, Eric P.

Paris

23 Fowler, Frank H.

'29 Garnsey, Morris E.
'10 Readey, Daniel J.

#### GERMANY

Berlin

'26 Duncker, Karl

Mayence

'05 Schürmann, Harry

Munich

'25 Allen, Mary Kibbe

#### INDIA

Bengal

26 Berg, August A.

Calcutta

'26 Roy, Satyananda

Madras

22 Banks, Dwight S.

Pasumalai

'05 Miller, Charles W.

#### JAPAN

Chosen

'07 Phillips, Charles L.

Formosa

'10 Mackay, George W.

**F**ukuoka

'09 Kanda, Sakyo

Himeji

'20 Uchiyama, G.

Hiroshima

'15 Kubo, Yoshihide '23 Rikimaru, Ji-Yen

'21 Tanaka, Isawo

'17 Yokogawa, Yosohachi

Okayama

'23 Torigoye, Kazutaro

Osaka

'08 Misawa, Tadasu

Tokyo

'15 Kageyama, Chimaki

'13 Nakanishi, Tetsutaro

'24 Nuki, Denmatsu '14 Hori, Baiten

'09 Ishizawa, Kyugoro '21 Kenneyside, Hugh L.

'06 Kuma, Toshi Yasu

'16 Kurihara, Shinichi '10 Ueda, Tadaichi

'07 Watanabe, Jun '11 Yamada, Sohichi

'21 Yokoyama, Matsusaburo

#### MEXICO

Sinaloa

'05 Minsch, Walter C.

# NEWFOUNDLAND

St. Anthony

'09 Curtis, Charles S.

St. John's

'30 Levitz, Aaron

# PALESTINE

Ram Allah

'11 Totah, Khabil A.

# SWEDEN

Stockholm

'26 Jonasson, Olof G.

# TURKEY

Constantinople

'26 Cowell, Charles C.

#### WEST AFRICA

Nigeria

'22 Flohr, Earl W.

WEST AUSTRALIA

Goswell

'18 Hill, Thomas B.

# desirable to have all degrees listed here or atleast all from C. U.

# ALPHABETICAL LIST

Abelsky 30 Michael Acher '10 Rudolph '13 Frank L.
'29 Hobart W. '28 Harold B. '20 George B. '15 Harry Aldrin '15 Edwin E. '26 Adolph W. Alexander '12 Forrest E. '05 George E. '25 Mary Kibbe '17 Mildred '05 Reginald B. Allison '16 Vernon C. Alquist '22 Francis N. Alston '20 John H. Anderson '20 Edmund G. E. '11 Ernest L. '26 Henry C.
'07 Lewis F. '28 S. Axel Andress 29 Allen E. '16 J. Mace '22 Paul E. '13 Adolph '13 Herman H., Jr. '13 Herman H., Jr. Armitage '23 Frank G. '23 Harold B. '03 Lonna D. '11 David J. '09 Fred M.

'11 Ray D.
'20 Mrs. William A.

Arnos '08 Edward M. '07 Jacob Ashford '20 Moselle Ashworth '30 Jessie E. Atwood '12 Harold B. '16 Leland L. '25 Rollin S. '27 Wallace R. Auchampaugh '25 Philip G. Averill '13 Lawrence A. Avery '29 Mrs. Eula V. Babcock '23 Royal R. Backlin '29 Everett E. Bacon '06 Charles W. Bailey '06 Frank K.\* '29 Irving E. Baker '22 George E. Balch '17 Royal T. Baldwin '06 Francis M. '10 Ralph W. Ballard '20 Kenneth C. Bankes '14 Walter J. Banks '22 Dwight S. Bannister '27 Lois A. Baralt '29 Jose Lopez Barber '30 William P. Barbosa 25 Pilar (See de Rosario, Mrs. Pilar B.)

Barker

Barnes

'10 Byron W.

'27 Carlton P.

Baron '06 Albert H. N. '20 William J. Barrows '09 George M. Barsam '19 R. G. Bartlett '07 Elwin I.\*
'15 Ralph S. '11 Douglas Basset '11 Gardner C. Bassett '18 John J.
'26 Walter G. Batchelor '19 Wilbur C. Bates '22 James E. '20 Marjory (See Pratt, Mrs. C. C.) Battles '12 Earle W.\* '21 Stanley C. Baugh '26 Ruth E. Baxter '28 John F. '20 William J. '17 Francis J. '27 Stephen, Jr. Becker '28 Raymond Carl Becknell '11 Guy G. Beckwith '13 Walter L. Beeson '08 William J. '13 Arthur K. Belanger '29 Leonard J. Belisle '12 Eugene S.\* '06 Ferdinand J. Bell '28 Ruth E. Bellamy '13 Raymond

Bemis '12 Samuel F. Benda '17 Theodore\* Bender '05 William A. Bengtson '27 Nels A. Benjamin '22 Mendall Benner '26 Clyde F. Bennett '11 Glen R. Benns '20 Frank L. Bent '09 Arnold A. Bentley '16 John E. '26 August A. Bergan '24 J. Frederick Berger '13 Henry E., Jr. Bergman '27 Carl J. Bergquist '21 Albert G. Bergstrom '94 John A.\* Berman '24 Jacob I. Berry '14 Francis C. Besselievre '14 William C. Beswick '25 Albert E. Bigelow '20 Karl W. '17 Charles Bishop '15 John E.\* Bivin '09 George D. Bixby '22 F. Lovell Blackwell '30 George L. Blades 25 Ansley O. '20 John E. Blake '15 William H. Blanchard '16 Harold H. '21 Kenneth C.

ALUMNI '18 Phyllis M. Bland 29 Isadore C. Bliss 23 Lawrence E. Blom 21 E. William U. Blomstrom 30 Lillian S. Bloom 28 William O., Jr. **Bobbitt** '09 John F. Bodfish '17 Robert W. Boghosian '17 Hagop B. Bohannon '12 Eugene W. Boireau '13 Walter H. Boland '10 Marian G. Bolton '98 Frederick E. 95 Thaddeus L. Bond '09 Otto F. Book '06 William F. Borquist '06 Alvin Bowden '27 Hervey F Bowen '05 Sylvanus H. Bowman '17 Ethel Boyajian '14 Setrak K. Boyce '13 Paul L. Boyden '28 Willard E. Boylan 21 George E. Boyle '11 Charles F. '30 Thomas E. Boynton '09 Clarence N. '97 William P. Brady '30 Edward W. Bramhall '05 Robert I. Branom '23 Frederick K. Breen

'27 Thomas A.

Brennan '17 Fred J. '16 Mrs. Fred J. (Kneeland, Gertrude E.) Bresev '27 Morris I. Brewster '19 Frank V. (Uhrig, Frank V.) Bridge '94 John L. Brierly '16 John E. '18 Ralph C. Briggs '29 Reginald A. Brigham '24 Charles A. '16 Harold K. '12 Lawrence W. Brightman '15 Charles L. Brind 23 Abraham Brittain '07 Horace L. Britton '29 Jacob Brockman '10 Mrs. Frank M. (Willis, Jessie) **Brodie** 24 William Brodsky '19 Michael E. Broene '07 Johannes Brooks '18 Bernard F. '20 Chester E. '17 Elizabeth '16 James F.
'14 Roger E. Brown '11 Herman E. Thomas I. '28 Virginia M. Browne '04 Charles E.\* '20 Gordon W. Bruner '09 Jesse Bryan '92 William L. Bucke '04 W. Fowler Bugdenovich '19 William Bullard '18 Ida L. (See Pearson. Mrs. Charles W.)

'14 Tames A. '17 Ralph H. '96 Warren G.\* Bumpus '91 Hermon C. '09 Samuel F. Burch. '05 Clarence A. Burdick '14 Earl V. Burfield '25 Helen S. Burgess '16 Mrs. S. A. Burgy '30 J. Herbert Burk '98 Frederic\* Burke '18 Winthrop M. Burnham '16 Guy H. Burrage '05 Leslie M. Burrill '26 Meredith F. Burt '12 Arthur W. Butler '10 Harry J.
'11 John F.
'29 Richard W. '12 Walter G. Butman '09 Chester A. Buxton '23 Kenneth S. Buzzard '25 Robert G. Caase '24 Emilie C. Calhoun '16 Arthur W. Callahan '24 Mary J. '28 Mary M. Callis '18 Conrad C. Cammett '24 Stuart H. Campbell '22 Elmer I. '12 Ivy G. Cannon '14 Robert H.

Carey

Carlson

28 Gertrude M.

'29 Albert S.

'25 C. William

ALPHABETICAL LIST '26 Gustaf H. '24 Harry G. Carmichael '12 Robert R. Carney '24 E. Seaton '09 Roland P. Carrigan '10 Thomas C.\* Carroll '09 Charles S. Carruthers '13 Paul E. Carter '11 Allan L. Carver 28 Wells E. Cashen '10 George B. Casto '26 E. Ray Chaffee '08 Reginald R. Chamberlain '92 Alexander F.\* Champ '15 Anthony M. Chandler '14 Edward M. A. Chang '13 Peng Chun '20 Tao H. '22 C. William Chaoush '22 Angelos G. Chapin '30 Lucy E. Chaplin '11 Fred W.\* Charbonneau '17 Genevieve A. J. (See Farwell, Mrs. Genevieve) Chase 28 George B. '10 Harry W. '09 Mrs. Harry W. (Crum, Lucetta) '09 Howard E. Chatterjee '15 Manmath N . Chen '24 Jason H. Cheney 22 Ralph L. Chester '13 Edward P. Chidester

'08 Floyd E.

Chilk '20 Joseph Chilson '11 Wallace S.\* Chisholm '05 William I. '17 Chung Yen Choquette '26 Charles A. Christenson '27 Mildred E. '30 Thomas E. Christopher '14 Clifford Z. Ciano 28 Michael A. Civalier '27 Roland B. Civen '18 Nathan Claman '13 Samuel Clancey '11 Frank H. Clare '09 Edward W. Clark '04 Arthur L. '21 Edwin R. '17 Elmer B.\* '17 John B.
'92 Thomas H. '23 Wendell J. Clarke '09 Edwin L. '30 Katharine B. Clarkson 25 Paul S. Clee '18 F. Raymond Cleveland '06 Alfred A. Closson '20 Earle R. Clune '22 Mary C. Cochran '13 Harold C. '10 M. Ethel Cockroft 23 Grace A. Cody '12 Paul L. Coe '14 George A. Coffin '08 Ernest W. '03 Joseph G. Coffyn '29 Kingsland A.

Mrs. Lillian F.)

Coghlan Cowdrev Dabbs 24 C. Francis, Jr. '06 Samuel R. '17 James M. Dahl Cohen Cowell 29 Randle E. '26 Charles C. '24 Irving C. Cole Coyne Daley '16 Franklin E '13 Charles E. '29 Kathrine M. '11 George E. T. Damon Crafts '27 Mrs. Ruth L. 20 Leland W. '11 Alice H. '22 Curtis (Laidlaw, Ruth) Crane Colegrove 27 Mrs. Charles B. Daniels '98 Frederick W.\* '93 Arthur H. Horne, (Edith L.) '14 Earl R. K. Collamore Crawford '24 Edna A. '28 Harold H. Darby '14 Edward H.\* Conklin Crock '09 Edmund S. '21 Israel Z. Darling '22 Robert J. '16 Eugene A. Crook Conley 28 Mason N. Davis '16 Fred C. Crosland '15 Arthur E. '09 Clarence O.\* Conlin '14 Harold R. '22 George T '16 James F. '24 Hartley W. (Tashamka) Conner '10 Joseph P. '09 Glenn M. '24 J. Eva '30 Harry Conrad Crosslev '08 Herbert B.\* '29 Harold E. '26 Lester F. '21 Walter N. Conradi Croswell Dawson '04 Edward '99 Thomas R. '26 George A. Crouch Cook '97 George E. '18 Leon W. '25 Irvin E. '12 Leo H. '11 William R. Crowlev '16 Paul R. Cooke '05 Andrew A. Day '05 Frederick N., Jr. '30 Paul M. '06 Alexander A. '26 James A. Criim '13 Lorey C.
'17 Thomas E. Cooley '09 Lucetta (See Chase, '11 Herbert C. Mrs. Harry W.) Dealey Cooper Crumley '15 Hermione L. (See 27 Clyde E. 23 Martha M. Dvorak, Hermione L.) '21 Robert U. Cummings '16 Wiiliam L. Copeland '12 Charles H. Dean '07 William F. 13 Leo G. '08 Ernest W. Corash '21 Randall F DeBusk '21 Harry '11 Stanley W. 15 Burchard W. Corbin Cunningham Deeks '27 Milton W. '28 Floyd F. '29 William T. Cottle DeGangi Curley '20 William E. '27 Francis L. '29 Elizabeth G. Dellinger Coty Curtis 28 Everett W. '09 Charles S '07 Oris P. '24 Francis J. '08 Elnora W. Dennis '98 Henry S '28 Wavne Coulson 24 A. Gertrude '15 Roswell F. Denny 26 Nathan J. Couyumdjopoulos Cushman '20 Eustave (See Cuy, Eustace)\* de Rosario '05 Roy M. '25 Mrs. Pilar B. (Bar-bosa Pilar) Cutler '22 Frederick Morse Cove 28 Joseph E. '10 Harold J. Des Autels '22 George F. Covitt Cutter '15 Louis D. '05 Guy H.\* Dessert '05 Nelson P. Cowdell Cuy 26 Lillian F. (See Gates, 20 Eustace (Couyumd-Dexter

jopoulos, Eustave)\*

'23 Mrs. Elisabeth A.

'23 Robert C. '15 Wilbur B.
'28 William A. Dibble '12 Roy F. Dickey '17 Earl H. '30 Robert I. Dickie '12 Allan Dickinson '22 Charles A. '10 Hobert C. '27 Roger F. Dilts '09 Howard K. Disney '05 Charles E. Dix '25 Charles T. Dixon '07 Edith M. '18 Mrs. George E. (Mabel T. Murray) Dobie '30 Albert J. Dodge '10 Henry A. '25 Raven O. Doherty '05 Francis M.\* 25 Richard P. '10 Edward I.

Dolan '30 Robert A. Dolbear

'12 Katherine E. Donahue '30 Michael A. Donlon

'14 Charles A. Donnell

'10 Philip S. Donnelly '22 Everett C.

Donoghue '26 Cornelius S.

Dooley '16 Lucile Doolittle '19 Clyde B.

Dorward '25 Arthur R.

Douglass '15 Aubrey A.

'27 Richard B. '26 Gordon K.\* '09 John E.

Dowling '95 L. Wayland.\* Downey '09 Helen M. Downing '10 Bertha C. '12 Dorothy

Dresslar '94 F. B.\* Drew

'95 Frank\* Drowne

'06 George L. Du Bois

'11 B. G. Duesel

'29 Bernard F. Duke

'26 Mary A. Dumas

'26 Theodore E. Duncan

'06 Frederick N. Duncker

'26 Karl Dunham '17 Earl T.

'15 Francis L.\* Dunn

'21 Gustus A. Dunphy '12 Raymond A.

Durgan '26 Elford S. Dustheimer '14 Oscar L.

Dvorak '15 Mrs. H. L. (Dealey, Hermione L.)

Dwyer '12 John F. Dyer

'27 George B.

Dymond 29 Emily

'27 Henry F. Earle

'10 Edward Easley

'08 Charles W.\* '05 Philip A. Eastwood

'23 Floyd R.

'21 Stacev E. '00 Frederick

Edman 30 Victor R. Edmands

'05 Charles F. W.

Edmondson '96 Thomas W. Edson

'14 Earle R. '14 Robert A.

Edwards '26 George (Epstein, George)

Eells '14 Earnest E. '16 Hastings

22 Thomas K., Jr.

Ekblaw 26 W. Elmer Ekdahl

'19 Adolph G. Eksergian '28 Rupen

Eliason '30 Chester G. Elliott

'15 Clarence H. '24 Ray T. '15 Robert N.

'11 Robert T. Ellis '97 A. Caswell

'14 Ralph W. '14 Robert S. Ellison

'07 Louis (See Ordahl. Mrs. George) Ellsworth

'16 Frank H. Elwell

'13 William B. Emerson

'11 Paul S. Engleman '24 Harry A.

Epstein 26 George (See Edwards, George)

Erickson '30 Albert C. '28 Franklin C

'25 Robert S. H. Ericson '19 Emil

'18 Folke E. Estabrook

'05 Arthur H. Evans

'17 Walter H. '06 William W. Everett

'22 Kenneth C. '08 Lewis W.

Ewert 29 P. Harry

Ewing Finley Franz '05 John G. '18 Austin P. '23 Albin E. Fish Fraser Eycleshymer '92 Albert C.\* '22 A. D. Ross '21 Abraham '23 Andrew Frazier Fisher '20 E. Franklin '23 Rudolph '15 Roy M. Freeland '13 Sara C. '13 George E. Fallon '10 Perlie P. Fitchet Freeman Fallstrom '15 Seth M. '29 Otis W. '26 Iver W. Fitton French '21 Albert H. '29 Edith M. Farlin '10 Amy C. (See Poland. '99 John S. Fitzgerald '27 John E.
'26 John J. Mrs. Orville) Friedman Farnsworth '07 Albert M. '21 Albert Flagg Fryer Farrell '18 A. Glennon 29 Francis L. '17 H. Douglas '29 Albert L. Fleming '28 Wilfred R. '11 Pierce I. '20 Mrs. H. Douglas Farrington Fletcher (Pruette, Louise L.) '12 John M.
'10 Rollo F. Fulcher '24 Wendell F. Farwell '10 Gordon S. '17 Mrs. Genevieve Flohr Fuller '22 Earl W. (Charbonneau, Gene-'10 Harold F. Fogarty '17 Raymond G. vieve) '20 John J., Jr. Fay Gage 25 Louis '06 George E. '10 William J. '23 Gardner '13 Summer C. '26 Harriet A. Feinberg Gale '20 Raymond D. '24 Hyman I. 11 Joseph\* reingold '05 Frank H. '09 Walter S.\* Gammons Folson '11 Herbert Feinsilver '15 Joseph K. Gannon '18 Joseph E. '30 Oscar Forbes '26 Thomas C. '10 William T. M. Garbutt Forbush '05 J. Ralph 28 Charles W. '15 Guy J. Gard '26 William N. '08 Willis L. Felton '22 John V. Garnsey '07 Leon E. Forney '29 Morris E. Fenn '23 John D. Gates '18 Edward B.\* Forsberg '05 Burton N. Fenner 27 Randolph W. A. '04 Jesse N. '10 Harold L. Forsythe '26 Mrs. Lillian F. (Cow-Fenton '27 Marion B. dell, Lillian F.)
'25 Paul W. '14 Frederick A. Foster Ferguson Gay '22 Harold J. '16 George P. '23 Arthur W. '14 Harold A. '10 James K. '22 Lawrence S. '13 Ray L. '25 John H. Fowler Gavlord Ferrara '23 Frank H. '12 Harding W. 25 Adam E. Ferry Fox Geary '29 Donald J. '05 Michael B. '98 Frederick C. '23 Winston E. Geer 27 Gordon N. Foxhall '13 Irving A.\* '20 John W. '30 Harry Geldard Frame '25 Frank A. Finkelstein '23 Herman '12 Floy H. '15 Walter J. Finkenbinder France Gellerman

'01 Clemens J.

'11 Erwin O.

'30 Louis W.

Gerard 29 Wilhelmina Gervais 29 Roland E. Gesell '06 Arnold L. Gesner '21 Kenneth C. Gibbs '06 David Gibney '13 Carroll N. Gifford '18 Frederick O. '16 Raymond T. Gilbert '24 Ralph W. Gilbertson '13 Albert N. Ginsburg '16 Maynard Girard '25 Lillian '16 Nathan H. Gladding '25 G. Roger Glasgow '29 James Glazier '05 Philip N. Goddard '99 Henry H. '10 Robert H. Godfrey '12 Henry R. '14 Roland J. Goeller 27 Robert B.

Goldberg
'23 Joseph
'29 Milton H.
Goldblatt

'25 Leo A.
'15 Myron E.
Golden

'23 Sherman E. Goldman '29 Nathan

Goodearl
'17 Arthur W.

Goodnow
'20 Donald W.
Goodrich

'12 Merton T.

'27 Charles Gordon '14 Hardy H.\*

Goss
'28 George L.

Gould
'21 J. Sidney
Gowen
'05 Benjamin S.
Grace
'09 Charles W\*

'09 Charles W.\*
'29 Sydney
Graf

'26 Francis O. Graham '27 Clarence H

'27 Clarence H. Grandone

'25 Peter Grattan '23 Clinton H.

Greelish H.

'05 Devney J.

Green
'14 Howard W.

'14 Howard W. '27 Hyman H. Greenall

'20 Walter G., Jr. Greenberg '20 Abraham

Greenwood
'05 Robert B.
'07 Rolland R.

'07 Rolland R.
'15 Wallace W.
Greer
'22 Willard N.

Gregory
'30 Elizabeth E.

Greisheimer
'16 Esther M.

Grether
'19 J. Richard
Grey

'24 Robert M.
Griff

'26 Samuel Griffith

'26 Clifford O. Groop

'23 Waldemar H. Grose

'12 Merritt R.\*
Gueffroy

'27 Edna M. Guerin '15 Mary E.

Guillet
'98 Cephas
Gulick

'10 Louise (See Whitaker, Mrs. R. B.)

Gunter
'23 William
Guyton

'23 Homer W.

Haberman '29 James C. Hackett
'30 Freeman K.
Hadley

'26 Allan M.
'06 Stephen D.

Haines
'28 Charles G.
'30 George H.

Haire '17 Paul G. Hall

'28 Florence E.
'93 T. Proctor

Halverson
'22 Henry
Hamilton
'13 A. Edward

Hammond
'25 Arthur N.

'11 Ernest
Hancock
'16 Thomas\*

Handy
'08 Le Roy M.

Hankins
'12 Ralph H.
Hannan

'24 James P. Hanover

'25 Walter S. Hanratta

'28 Anna **Hanson** '20 Dorothy '17 Frank W.

Harada '23 Taichi

Hard '22 Ernest

Harden
'26 Luberta M.
Harding

'30 Kenneth C. Harper

'19 Russell D. Harriman

'18 Edward N.

Harrington
'05 Berton B.
'05 Elmer A.

'05 Elmer A.
'29 Wayne E.
Harris

'17 Frank '08 James W. '29 Marion V.

Harrison
'13 Marion M.

'27 Mrs. Isabelle K.
'10 Robert S.

Hartman '29 Raymond P. Hartson '11 Louis D. Hartz '16 George E. Harvey '11 McLeod Haskins '10 Henry S. Haslet '01 S. B.\* Hastings '24 Russell B. '08 W. Glidden '29 Walter, Jr. Hayden '14 Oliver M. Hayes '11 Alice B. (See Lefschetz, Mrs. Solomon) '15 William H. Haynes '05 Rowland Healey 21 John H. '29 Josephine E. Hearn '10 George D. Heath '27 Charles O. '27 Herschel Heffernan '23 Daniel J. Heiser '21 Harold W. Helie '08 Euclid Henry '14 Thomas R. Herbert '25 Mrs. Rose Herdman '12 Gordon W. Hewitt '20 Roy R. Hickey '28 Thomas J., Jr. Hickman '18 Clarence N. '26 Elizabeth L. Hicks '15 Charles R. '28 Ralph W. '28 Mrs. Ralph W. (Wagenhauser, Muriel) Higginbottom 26 Edwin '30 George

Higgins '23 Donald E. '12 John R. '23 Roger W. Higginson '21 William J. '07 David S. '13 Davis E. '95 John E.
'18 Thomas B. Hillman '07 Archibald M. '29 Owen N. '18 Samuel I. Himmer '21 William C.\* Hinkley '10 Irving A. Hinshaw '09 Mrs. Augusta W. (Wiggam, Augusta) Hirsch '11 Samuel W. Hitchcock '06 Albert W.\* Hoar '13 Mrs. Charles E. (Tufts, Frances) Hobson 27 Maude A. Hodge 20 Benjamin E. '24 Mrs. Thekla Hodgkinson '21 Harold Hogan '28 Frances H. Holgate '93 Thomas F. Hollis 30 Walter Holmes 28 Kenneth B. '10 Percy K.\*
'23 Richard M.
'10 William H. Holt '10 Howard A. Holzhauer '28 Carl F. Hood '24 Everett W. Hori '14 Baiten Horne 27 Edith L. (See Crane, Mrs. Charles B.) '13 William O. Horton '23 Clifford E.

House '22 Howard H. Howard '11 Frank E. '28 J. Philip '23 Palmer P. Howe '22 George F. '22 Mrs. George E. (Marvel, Louise) Howell '24 Edna V. (See Mc-Knight, Mrs. E. H.) Howas '10 Roy Francis Hovt '28 Edith E. '19 Chang-hsu Huang '28 Yu-Jung Hubbard '29 Arthur D. '08 Edward, Jr. '21 F. Edgar '04 John C. Hubley '10 Gordon A.\* Hudgins '30 Bert Huey '99 Edmund B.\* Huffington '29 Paul Huffman '15 Charles H. Hugh '18 Yu Tinn Hughes '29 Hartwell M. T. '09 John L. Humes '22 Warren M. Hunt '19 Horace A. '07 Robert B.
'27 Thomas F. Hurd 20 Charles B. Husband '15 Archie B. Husbands 23 Le Roy C. Hutchinson '10 George A. Hutter '30 Harry K. Hylan '01 John P. Illingworth

'17 Robert S.

Imlah '23 James A. H. '01 James E. Ishizawa '09 Kyugoro Ivok '22 Leo Jackson 23 Eric P. Lucased '11 Harry L. Jacobs '30 David H. '17 Edwin E. '15 Wilmarth I. Jacobson 23 Frank J. '12 Henry James '23 Preston E. Jasem '18 Saul I. **Jefts** 29 Lillian Jewell '06 James R. Jewett '06 Stephen P. Jodrey '26 Viola Johannsen 27 Dorothea E. Johnson '15 C. David '12 Carl '24 Carl A.
'14 Charles W. '25 Emil '30 Edwin N. '21 Ernest W. '13 Frank L. '24 George E. '29 Hilda V. '28 Olga A. '28 Robert E. '12 Ward L. '23 Warren C. Johnston '18 Earl N. Jonasson '26 Olof G. Jones '13 Arthur Taber '17 Carl E. '13 George Ellis '28 Lloyd C. '22 Sarah E.

Jordan

Joyce

'92 Edwin O.

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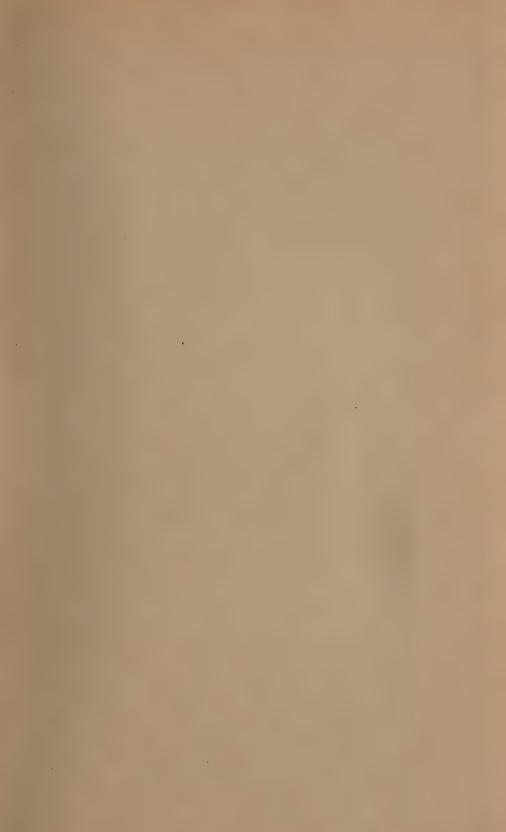
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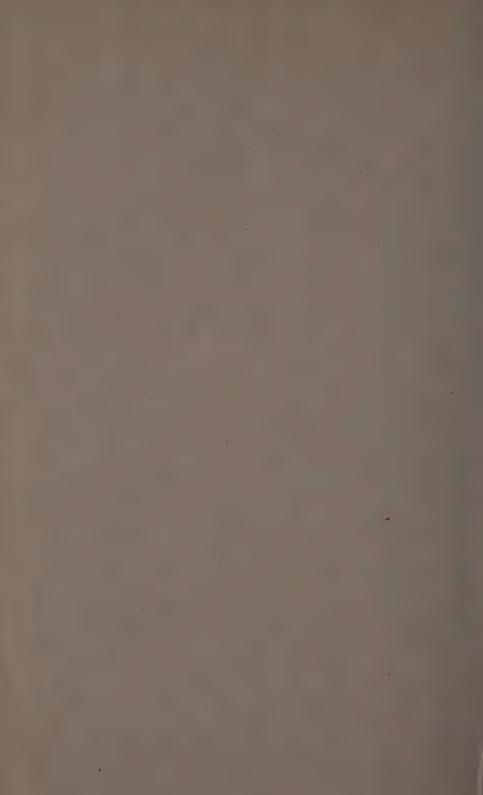














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In planning Psychologies of 1930, the Editor has tried to profit from all the serious criticisms that came to Psychologies of 1925. Associationism, Act Psychology, and Functionalism have been included in their historical setting, but the reader should not presume that these three schools are discussed by partisans in the same way as are the other schools. Professors Brett and Carr have acted largely as historians only in bringing these three schools to the convenient attention of students of this book, though Professor Carr himself is certainly in the direct line of descent from Functionalism. The former category of "Purposive Psychology" is here presented under the rubric "Hormic Psychology" and is expounded by the leading exponent of both rubrics. The large group of students who have come from Titchener's laboratory are represented by four different points of view. It may be made self-evident whether or not it is appropriate to apply the term "Structuralism" to the doctrines of this group. The present-day theories of the Leipzig laboratory are added to the Berlin group under the more general title of "Configurational Psychologies," it being definitely understood that this classification is applied by the Editor only. The three leading Russian schools of psychology are here presented in comparable, theoretical form for the first time in the English language. The Factor School of Psychology and three Analytical Psychologies appear also as distinct additions to the program of *Psychologies of 1925*. A separate section on some non-sectarian fundamental problems has also been added.

Contains halftone photographs of all the authors.

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#### PSYCHOLOGIES OF 1925

By Madison Bentley, University of Illinois; Knight Dunlap, The Johns Hopkins University; Walter S. Hunter, Clark University; Kurt Koffka, University of Giessen; Wolfgang Köhler, University of Berlin; William McDougall, Harvard University; Morton Prince, Harvard University; John B. Watson, The Johns Hopkins University; Robert S. Woodworth, Columbia University.

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This volume has passed through three printings and was the first of the Series continued by *Psychologies of 1930*. *Psychologies of 1925* contains discussions of Behaviorism, Dynamic Psychology, Gestalt Psychology, Purposive Psychology, Reaction Psychology, and Structural Psychology. The list is not so complete as is the case in the *Psychologies of 1930*, but the number of printings is sufficient commentary on the value of the idea involved in its planning.

This volume has been used as a reference book or textbook in practically all institutions where students are given advanced training in psychology.

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This volume was adopted by the Ninth International Congress of Psychology, which met at Yale University in September, 1929, as the official gift to all foreign psychologists present as members of the Congress. It represents the first attempt to formulate an accredited list of the world's competent psychologists. The following countries are represented: America (including the United States and Canada), Austria, Belgium, British Empire (including Australia, England, India, New Zealand, Scotland, South Africa, and Wales), China, Czechoslovakia, Denmark, Finland, France (and Algeria), Germany (and the Free State of Danzig), Holland, Hungary, Italy, Japan, Norway, Poland, South America (including Brazil and Argentina), Spain and Portugal, Sweden, Switzerland, Union of Socialistic Soviet Republics.

In the case of each person the following information is given: present address, date and place of birth, academic training, academic positions, professional honors and achievements, complete bibliography of psychological publications.

There will be a revision of this book every three years, the revision being timed so as to come from the press just before the meeting of the International Congress of Psychology.

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By H. Banister, Cambridge University; Philip Bard, Princeton University; W. B. Cannon, Harvard Medical School; W. J. Crozier. Harvard University: Alexander Forbes, Harvard Medical School; Shepherd Ivory Franz, University of California at Los Angeles: Frank N. Freeman, University of Chicago: Arnold Gesell, Yale University: H. Hartridge, St. Bartholomew's Medical School; Selig Hecht, Columbia University; James Quinter Holsopple, formerly of Yale University and of Western Reserve University; Walter S. Hunter, Clark University: Truman L. Kellev, Stanford University: Carney Landis, Wesleyan University: K. S. Lashley, Behavior Research Fund, Chicago; Mark A. May, Yale University; T. H. Morgan, California Institute of Technology; John Paul Nafe, Clark University: George H. Parker, Harvard University: Rudolf Pintner, Teachers College, Columbia University; Eugene Shen, China Institute in America; L. T. Troland, Harvard University; Clark Wissler, Yale University.

#### Edited by

#### Carl Murchison, Clark University

No better statement of the nature of this volume can be given than is implied by the names of the authors and by the titles of the chapters. The chapters are "The Mechanism and Laws of Heredity": "The Study of Living Organisms"; "The Mechanism of Reaction": "Vision: I. Visual Phenomena and Their Stimulus Correlations": "Vision: II. The Nature of the Photoreceptor Process": "Hearing I"; "Hearing II"; "The Chemical Senses"; "The Sense of Feeling"; "Space and the Non-auditory Labyrinth"; "Hunger and Thirst"; "Emotion: I. The Neuro-humoral Basis of Emotional Reactions": "Emotion: II. The Expressions of Emotion": "Learning: I. Nervous Mechanisms in Learning": "Learning: II. Experimental Studies of Learning"; "The Individual in Infancy"; "The Individual in School: I. General Ability"; "The Individual in School: II. Special Abilities and Their Measurement"; "The Adult in the Community"; "The Conflict and Survival of Cultures": "The Abnormal Individual"; "General Statistical Principles"; "The Statistical Treatment of Certain Typical Problems."

As time passes and emphasis in psychology changes, it may be expected that there will be revision of the list of problems given exposition in succeeding editions of this book.

### THE COMMON SENSE OF DREAMS

 $B_y$  Henry J. Watt

Late Lecturer in Psychology in the University of Glasgow, and Late Consulting Psychologist to the Glasgow Royal Asylum.

The present work on *The Common Sense of Dreams* is the last that came from the pen of Henry J. Watt. It is off the line of his main inquiries, but indicates the catholicity of his interests. While he recognized the value of current psychoanalytic interpretations of dreams, he felt that there was much in them that was unnecessarily obscure, even mystical, and that there was need of a simpler, more common-sense account of the facts. Psychoanalysis, he maintained, had not initiated a new psychology; it had merely put into practice the old theory of association with a new emphasis on attitudes and urges as against the more familiar traditional sensations and ideas. In writing this book, his aim was to give such an account; to offer, as he said, a "simple scheme for the interpretation of dreams."

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#### CARL MURCHISON

Professor of Psychology and Director of the Psychological Laboratories in Clark University

Political domination is so obvious a phenomenon in every walk of daily life and on every page of history that it must have a biological and psychological basis. Social institutions and particular forms of social behavior are but trivial and incidental consequences brought about by the ever present and irresistible influence of those persons or communities that dominate others.

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The book is divided into eight parts: "General Problems in the Psychology of Feeling and Emotion"; "Special Problems in the Psychology of Feeling and Emotion"; "Physiology of Feeling and Emotion"; "Pathology and Psychoanalysis of Feeling and Emotion"; "Feeling and Emotion in Children"; "Feeling and Emotion in Relation to Aesthetics and Religion"; "History of the Psychology of Feelings and Emotions"; "Emotion in Relation to Education."

There are thirty-four chapters, and after most of the chapters there are abstracts of discussions which took place at Wittenberg College during the presentation of the chapters as addresses.

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## THE CASE FOR AND AGAINST PSYCHICAL BELIEF

By Mary Austin, Frederick Bligh Bond, John E. Coover, L. R. G. Crandon, Margaret Deland, Sir Arthur Conan Doyle, Hans Driesch, Harry Houdini, Joseph Jastrow, Sir Oliver Lodge, William McDougall, Gardner Murphy, Walter Franklin Prince, F. C. S. Schiller.

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#### Carl Murchison, Clark University

This volume contains the papers presented at a symposium on psychical research held at Clark University, November 29 to December 11, 1926. The papers by Sir Oliver Lodge and Sir Arthur Conan Doyle were sent to the Symposium in manuscript form; while the paper by Harry Houdini was taken from his book "A Magician among the Spirits." Houdini was to have been present at the Symposium, but was prevented by death.

The volume is divided into four parts. Part I, "Convinced of the Multiplicity of Psychical Phenomena," contains papers by Sir Oliver Lodge, Sir Arthur Conan Doyle, Frederick Bligh Bond, L. R. G. Crandon, Mary Austin, and Margaret Deland. Part II, "Convinced of the Rarity of Genuine Psychical Phenomena," contains papers by William McDougall, Hans Driesch, Walter Franklin Prince, and F. C. S. Schiller. Part III, "Unconvinced as Yet," contains papers by John E. Coover, and Gardner Murphy. Part IV, "Antagonistic to the Claims that Such Phenomena Occur," contains papers by Joseph Jastrow, and Harry Houdini.

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### CRIMINAL INTELLIGENCE

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Professor of Psychology and Director of the Psychological Laboratories in Clark University

This material is offered for the special consideration of lawyers, psychologists, sociologists, social workers, and all those who have to do with the formulation of criminal law, the treatment of criminals, and the moulding of public opinion concerning the enemies of organized society.

During the period immediately following the signing of the Armistice, while the writer was acting as Chief Psychological Examiner at Camp Sherman, Ohio, it became possible to begin the collection of data presented in this book. At this time he gave the Army Alpha test to the prison population of the Ohio State Penitentiary. Shortly afterwards, he gave the Alpha test to the criminals in the Ohio Reformatory, the Ohio Penitentiary for Women, the Ohio Prison Farm, the Illinois Penitentiary at Joliet, the Illinois Reformatory at Pontiac, the Indiana Penitentiary, the Indiana Reformatory, and various criminal groups in and about Camp Sherman. In the fall of 1922, Dr. E. A. Doll allowed access to his files in the New Jersey Penitentiary. In the spring of 1923, the Army Alpha was also given to the prison population of the Maryland State Penitentiary.

This volume represents the first serious attempt to give mental tests to large prison populations. Its conclusions entirely overthrow previous hypotheses that criminals are less intelligent than most people. Insofar as differences can be ascertained, the investigations indicate that the average criminal may be more intelligent than the average adult in the community.

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